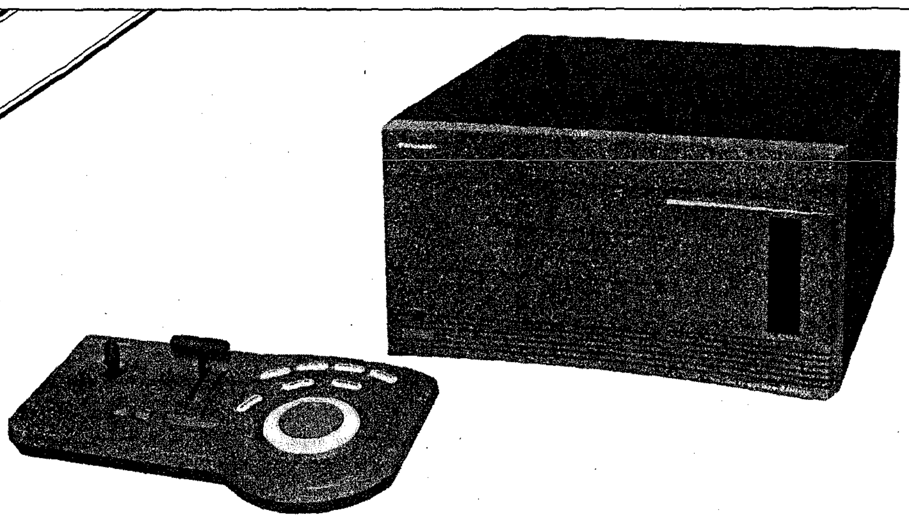
ORDER NO. BSD9709018A8.

Service Manual

Nonlinear AV Workstation
Main Kit

WJ-MX1200K

Simplified



Please file and use this manual together with the service manuals for the Model No. WJ-MX1000K and WJ-PB1003, order NO.AVS9511066C8 and BSD9708013C8.
V20639 V20641

SPECIFICATIONS

Video

Video Input

Input Connectors:	2 sources (selectable from Composite. Y/C, Y/PB/PR)	
Composite:	1.0 V[p-p]/75 Ω (BNC)	
Y /C:	Y:	1.0V[p-p]/75 Ω
	C:	0.3 V[p-p]/75 Ω (Y/C terminal)
Component:	Y:	1.0V[p-p]/75 Ω (BNC)
	PB/PR:	0.525V[p-p] or 0.7V[p-p]/75 Ω (BNC) (75% Colour Bar)

Video Output

Output Connector:	2 outputs (simultaneously from Composite, Y/C, Y/PB/PR)	
Composite:	1.0V[p-p]/75 Ω	
Y/C:	Y:	1.0V[p-p]/75 Ω
	C:	0.3V[p-p]/75 Ω (Y/C terminal)
Component:	Y:	1.0V[p-p]/75 Ω (BNC)
	PB/PR:	0.525V[p-p] or 0.7V[p-p]/75 Ω (BNC) (75% Colour Bar)

Synchronization

Gen-Lock Input:	1.0V[p-p]/75 Ω (BNC), with loop-through output (x1)
ADV.REF output:	Sync: 0.3V[p-p]/75 Ω Burst: 0.3V[p-p]/75 Ω

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards.
Do not modify the original design without permission of manufacture.

Audio Output

4 outputs (simultaneous)	
Ch. 1/2:	+4dBμ, 47 Ω balanced (3-pin XLR connector)
Ch. 1/2:	–6dBs, 75 Ω, unbalanced (RCA pin jack)

Other Inputs/Outputs

LTC time code Input:	x1 (BNC)
LTC time code output:	x1 (BNC)
SCSI connector:	x4 (Audio, Video 1, Video 2, Video 3, SCSI-2 standard, 50-pin half pitch connector, bellows type)
VTR control connector :	RS422, 9 pin x2 (D-sub)
Jog Pad connector:	9 pin x1 (D-sub)

PC

CPU :	Pentium Processor 166 MHz
OS :	Windows 95
Main Memory :	32 MB
Built-in Hard Disk Drive :	1.2 GB (E-IDE) x1
Floppy Disk Drive :	1.44MB x1
Card Slot :	ISA x1 (supplied by Panasonic only)
SVGA connector :	15 pinx1 (D-Shell, female), 1024x768 dots, 256 colours, Scanning: 35kHz (horizontal), 86 Hz (vertical)
Parallel connector:	25 pin x1 (D-Shell, female)
Serial connector :	9 pin x2 (D-Shell, male)
Mouse :	6 pin x1 (Mini-Din, female)
Keyboard :	6 pin x1 (MIni-Din, female)

Video Performance

S/N Ratio *:	55 dB (Y/PB/PR), 53 dB (Y/C), 50 dB (Composite)
DG, DP *:	5%, 3°
Frequency Response *:	4.5 MHz, +0dB, –3dB (Y/C, Y/PB/PR)
Sampling Frequency:	13.5 MHz, 4:1:1, 8 bit component
Y/C Separation:	3 lines, digital logical comb filter
SC-H:	±30°
Compression:	MOTION JPEG
Compression Quality:	Q3, Q6, Q8, Q11, Q19
Recording Time:	Approx. 3 min/GB (Q3) Approx. 6 min/GB (Q6) Approx. 8 min/GB (Q8) Approx. 11 min/GB (Q11) Approx. 19 min/GB (Q19)

Title Graphics

Resolution:	640 x 480 dots Y, U, V, α, 8 bit component each
Font :	True type

Audio Performance

S/N Ratio:	More than 70 dB (1 kHz, XLR OUT)
Dynamic Range:	More than 88 dB
Total Harmonic Distortion:	0.05% (1 kHz)
Frequency Response:	20 kHz, +0, –3 dB, 20 Hz, +0, –3 dB
Sampling Frequency:	48 kHz, 16 bit
Mixing:	Stereo 4 channels
Effector:	EQ, Reverberation
Recording Time:	Approx. 86 min/GB

Others

EDL Output:	CMX 3600 format
Graphic Conversion:	TIFF file

General

Power Supply:	220-240V AC, 50 Hz
Power Consumption:	110W (with optional Video Board)
Ambient Operating Temperature:	0°C - 35°C (32°F-95°F)
Ambient Operating Humidity:	10% - 90%
Weight:	Main Kit: 22.5 kg (49.5 lbs) Jog Pad: 1.2 kg (2.6 lbs)
Dimensions:	See dimensional drawings

Weight and dimensions indicated above are approximate.
Specifications are subject to change without notice.
This product might be subject, to export control regulations.

* : Without Compression

STANDARD ACCESSORIES

Power Cord	1 pc
HDD Mounting Angle	4 pcs
HDD Fixing Screw	16 pcs
Mounting Angle Fixing Screw	16 pcs
SCSI Flat Cable	4 pcs
ID Number Label	1 pc

CONTENTS

Major Operating Controls and Their Functions

Front Panel 1
Rear Panel 2
Jog Pad 4
Connection 5
System Connection 7
Operating Procedures 14
Adjustment 17

Block Diagram

Overall 19

Schematic Diagram

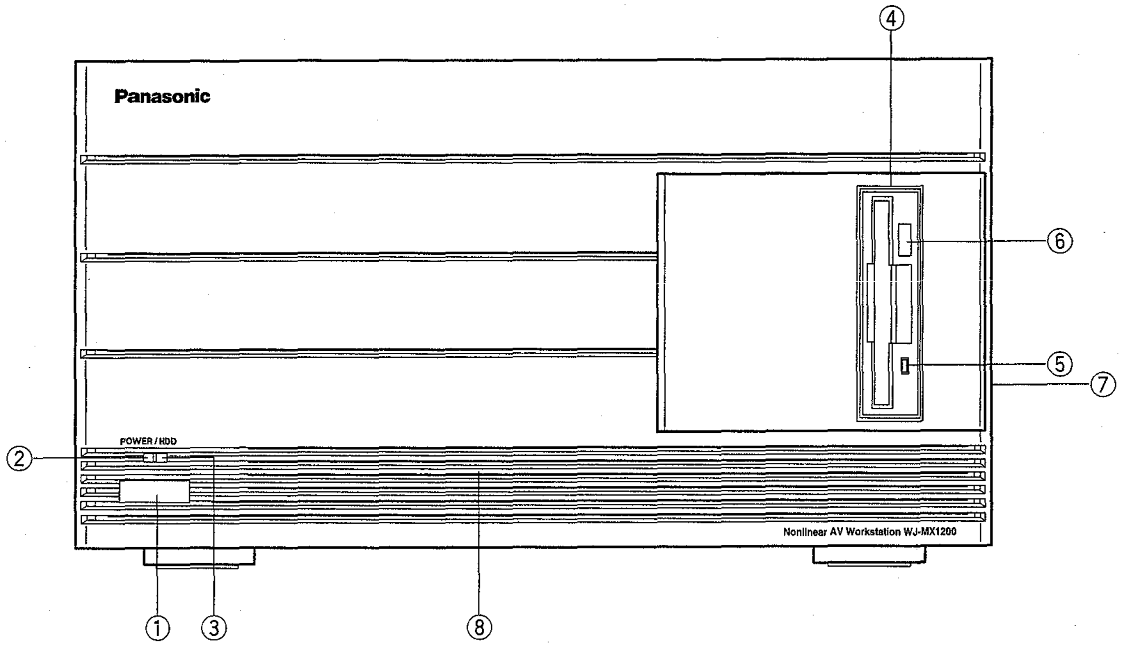
Interface Board 26
Mixer Board (1/3) 21
Mixer Board (2/3) 22
Mixer Board (3/3) 23
Input Board 27
CG Board 20

Conductor View

Interface Board 25
Mixer Board 24
Input Board 28
CG Board 20
Exploded View 29
Replacement Parts List 30

MAJOR OPERATING CONTROLS AND THEIR FUNCTION

■ FRONT PANEL



1. **Power On/Off Switch**
   Turns the power of this unit on and off.
   Notes :
   1. Be sure to turn on the power of this unit after turning on the Hard Disk Box.
   2. Do not turn off the power of this unit while the Nonlinear AV Workstation System software is running.

2. **Power Indicator (RED)**
   Lights by turning on the power.

3. **HDD Indicator (GREEN)**
   Lights up while the HDD operates.

4. **3.5" Floppy Disk Drive**

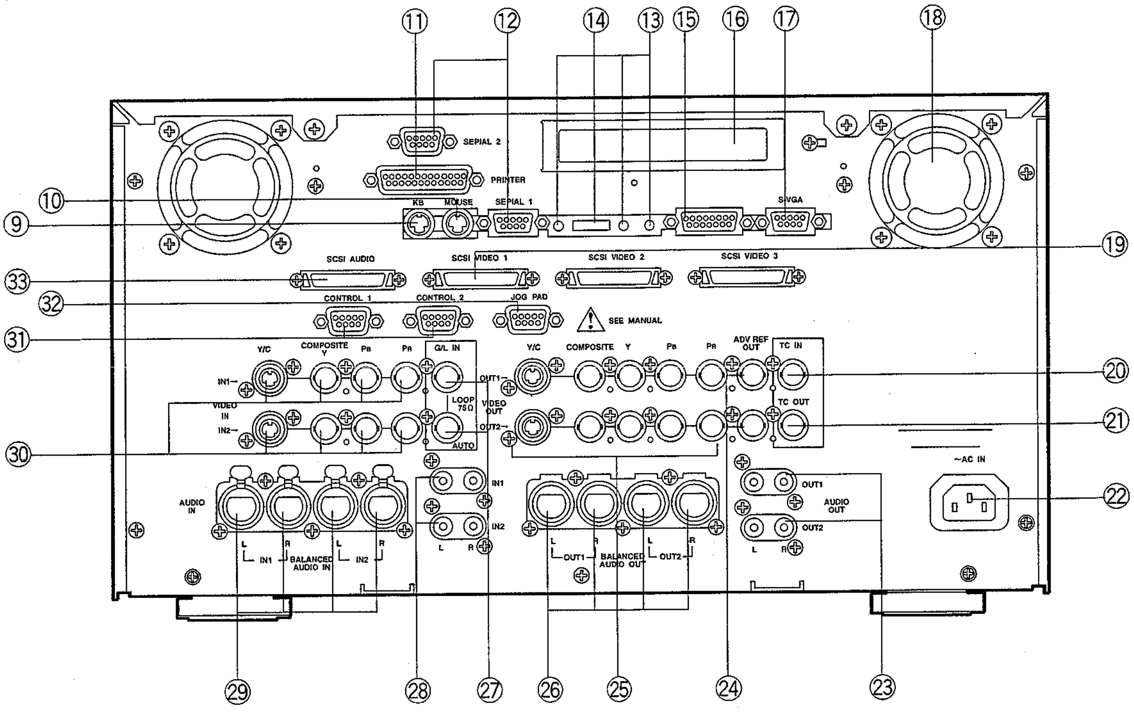
5. **Floppy Disk Indicator**
   Lights during an access of the floppy disk.

6. **Eject Button**
   Ejects the Floppy Disk.

7. **Front Panel Remove Button**
   Removes the Front Panel.

8. **Front Panel**
   Caution: Do not interrupt the Vent Hole on this panel.

■ REAR PANEL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㉕
㉔
㉓
SERIAL 2
PRINTER
KB
MOUSE
SERIAL 1
S-VGA
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3
CONTROL 1
CONTROL 2
JOG PAD
SEE MANUAL
Y/C
COMPOSITE Y
PB
PR
G/L IN
ADV REF OUT
TC IN
TC OUT
IN1
IN2
VIDEO IN
LOOP 75Ω
VIDEO OUT
OUT1
OUT2
AUTO
AUDIO IN
L
R
BALANCED AUDIO IN
BALANCED AUDIO OUT
AUDIO OUT
~AC IN

9. KEYBOARD Connector (KB)

Connects with the keyboard (locally purchase).
If the cable is too short to connect, use the Key Board Extension Cable (accessory).

10. MOUSE Connector (MOUSE)

Connects with the Mouse (locally purchase).
When the cable is too short to connect, use the Mouse Extension Cable (accessory).

11. PRINTER Connector (PRINTER)

Connects with the printer.

12. SERIAL1 / 2 Connectors (SERIAL 1/SERIAL 2)

Connects with equipment having RS-232C Interface Connectors.

13.

Not used.

14.

Not used.

15.

Not used.

16. ISA Slot

Refer to qualified service personnel.

17. S-VGA Connector (S-VGA)

Connects with the computer display.
The applicable display parameters are shown below.
Resolution: 1024 x 768
Horizontal Scanning Frequency: 35 kHz
Vertical Scanning Frequency: 86 Hz

18. Fan

Supplies steady forced air through intake and filter.

Note: After extensive use the fans need to be replaced periodically.

Operating Time	Operating Life
8-hour everyday use	6-year
12-hour everyday use	4-year
24-hour everyday use	2-year

19. SCSI VIDEO Connectors (SCSI VIDEO 1-3)

Connects with the SCSI Video Connector of the Hard Disk Box WJ-EB1000 via the optional SCSI Cable WJ-CA10SR3.

20. TC (Time Code) IN Connector (TC IN)

Connects with a VTR having LTC time code signal output connector to improve editing accuracy.

21. TC (Time Code) OUT Connector (TC OUT)

Connects with a VTR having LTC time code signal input connector.

The signal supplied from this connector is not looped through.

22. AC Inlet

Connect the AC Power Cord (provided)

23. AUDIO OUT 1 / 2Jacks (AUDIO OUT OUT1, OUT2 L/R)

Supply the audio signals.

24. ADV-REF OUT Connector (ADV-REF OUT)

Supplies the Advance Reference Signal to the VTR having the time base corrector inside (or AUX video source).

25. Video Output Connectors (VIDEO OUT1/OUT2 Y/C, COMPOSITE, Y, PB, PR)

Supplies the video signal to the monitor or VTR.

26. AUDIO OUT 1/2 Connectors (BALANCED AUDIO OUT, OUT1/OUT2)

Supply the audio signals.

27. G/L IN / AUTO Connectors (G / L, IN/AUTO)

The gen-lock signal is supplied to these connectors (Be sure to terminate the video signal output from these connectors).

By connecting with the G/L AUTO Connector, the video signal is automatically unterminated.

Caution:

If a gen-lock signal is supplied to the G/L connector during playback or recording, it may cause the video to roll or cause other system malfunction.

Stop the playback or recording, then make a connection to the G/L connector again.

28. AUDIO IN 1/2 Jacks (IN1, IN2 L/R) (Unbalanced)

Accepts the audio signal.

The audio signal supplied to these jacks can be saved in the Hard Disk Box.

When the audio signal is supplied to the L side only, a monaural audio signal is made.

29. AUDIO IN 1/2 Connectors (BALANCED AUDIO IN IN1 L/R, IN2 L/R)

Accepts the audio signal.

The audio signal supplied to these connectors can be saved in the Hard Disk Box.

30. Video 1/2 Input Connectors (VIDEO IN1/IN2 Y/C, COMPOSITE, Y, PB, PR)

Accepts the video signals to be saved in the Hard Disk Box.

Select the connector, either Composite, Y/C or Component, according to the type of video signal.

The selection of either Video 1/Video 2 is available on the PC monitor screen.

31. CONTROL 1/2 Connectors (CONTROL 1 /CONTROL 2) (9-pin)

Supplies the control signal (for the recording or play back mode) to equipment having an RS-422 Interface Connector.

Be sure to supply the video signal of the VTR connected with CONTROL 1 to VIDEO IN 1, and likewise with the VTR connected to CONTROL 2.

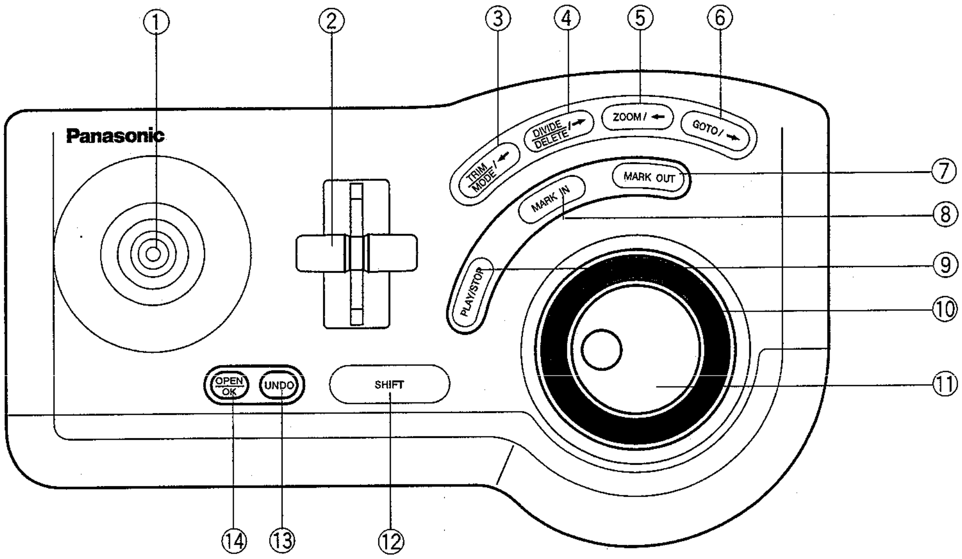
32. JOGPAD Connector (JOGPAD)

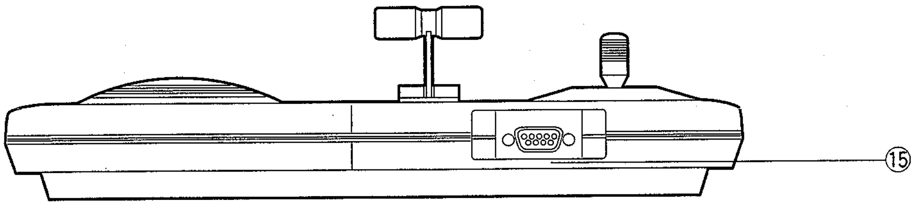
Connects with the Jogpad (provided).

33. SCSI AUDIO Connector (SCSI AUDIO)

Supplies the audio signal to the SCSI Audio Connector of the optional Hard Disk Box via the optional SCSI Cable WJ-CA10SR3.

■ JOG PAD





1. **Positioner**
   Moves the selection cursor (when selection is confirmed).
2. **Wipe Lever**
   Controls Wipe, Key Size, and Audio Level.
3. **TRIM / MODE /**
   Switches edit modes (Insert - Replace - Cover)
   (SHIFT + TRIM/MODE) Turns Trim mode On/Off (during transition)
4. **DIVIDE / DELETE**
   Deletes a clip.
   (SHIFT + DIVIDE / DELETE) Divides a clip
5. **ZOOM /**
   Zooms in the time line
   (SHIFT + ZOOM) Zooms out the time line.
6. **GOTO /**
   Jumps to the starting or editing mark
   (SHIFT + GOTO) Jumps to the beginning or end of a sequence.
7. **MARK OUT**
   Sets or cancels the ending mark.
   (SHIFT + MARK OUT) Selects the grip of the OUT point.
8. **MARK IN**
   Sets or cancels the starting mark.
   (SHIFT + MARK IN) Selects the grip of the IN point.
9. **PLAY / STOP**
   Plays back or stops.
   (SHIFT + PLAY /STOP) Plays back between the starting and ending marks.
10. **Shuttle Ring**
    Plays back video and audio forward (clockwise) or in reverse (counterclockwise) with variable speed.
11. **Jog Dial**
    Plays back video and audio forward (clockwise) or in reverse (counterclockwise) frame by frame.
12. **SHIFT**
    Switches button functions.
13. **UNDO**
    Cancels the immediately previous operation.
14. **OPEN / OK**
    Opens the selected panel or selects a panel and closes the previous panel.
15. **Jog Pad Connector**
    Connects with the Main Kit by using the Jog Pad Cable (accessory).

CONNECTION

These connections should be made by qualified service personnel or system installers.

■ Cable Information

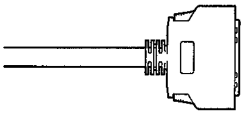
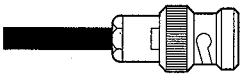
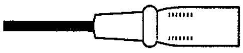
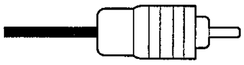
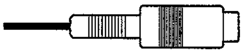
Necessary cables for this system are shown below.

SCSI Cable (WJ-CA10SR3) Connects with the HDD-BOX.

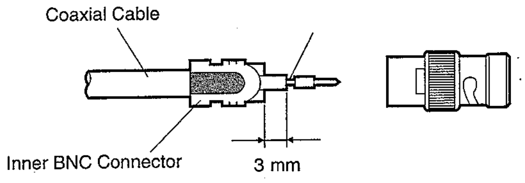
Coaxial Cable (with BNC Connector) Connects with the VTR or Monitor.

2-conductor shielded cable (with XLR-3-12C Connector) Connects with the powered speaker), cassette tape recorder, CD player, VTR.

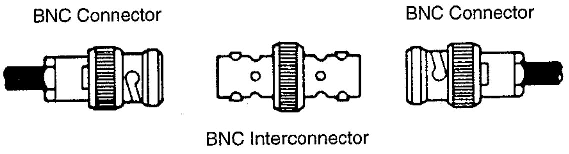
S-VHS cable connects with the S-VHS VTR.

Cable	Use
SCSI Cable (WJ-CA10SR3) 	HDD-BOX Connection
Coaxial Cable With BNC Connector 	VTR (Video)/Monitor Connection
2-conductor shielded Cable With XLR-3-12C Connector 	VTR (Audio) Connection
RCA Pin-plug Cable **RCA W Pin-plug Cable** 	Power speaker Connection Cassette Tape Recorder/CD Player/S-VHS VTR (Audio) Connection
S-VIDEO Cable 	S-VHS VTR Connection

Coaxial Cable / BNC Connector

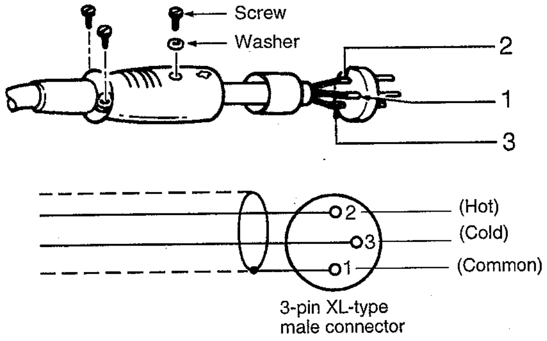

Coaxial Cable
Inner BNC Connector
3 mm

Interconnection of BNC Coaxial Cable


BNC Connector
BNC Connector
BNC Interconnector

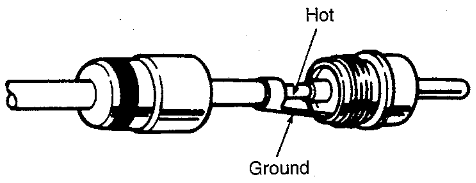
XLR-3-12C Connector

Connect the 2-conductor shielded wire as shown below.


Screw
Washer
2
1
3
2
3
1
(Hot)
(Cold)
(Common)
3-pin XL-type
male connector

RCA Pin-plug

Connect single-conductor shielded wire as shown below.



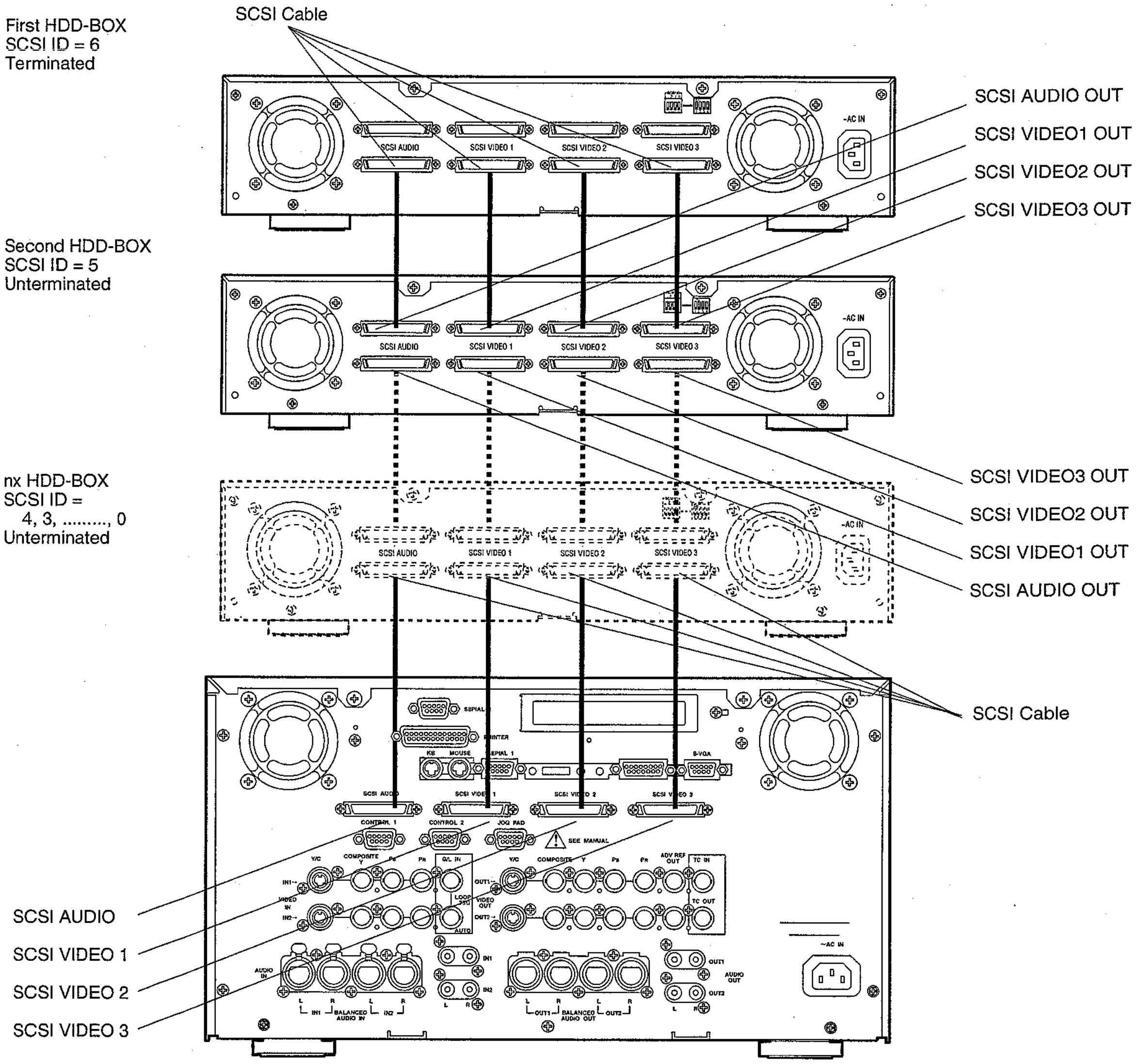
SYSTEM CONNECTION

The following system connections should be made by qualified service personnel or system installers.

■ HDD-BOX Connection

Refer to the Operating Instructions of the WJ-EB1000 Hard Disk Box for the Hard Disk Box Installation instructions.

Connect the SCSI VIDEO 1, 2 and 3 Connector(s) of this unit to the SCSI Input Connector(s) of the WJ-EB1000 by using the optional SCSI Cable WJ-CA10SR3.
Note: The first WJ-EB1000 should be terminated and set to ID=6.


First HDD-BOX
SCSI ID = 6
Terminated
SCSI Cable
SCSI AUDIO OUT
SCSI VIDEO1 OUT
SCSI VIDEO2 OUT
SCSI VIDEO3 OUT
Second HDD-BOX
SCSI ID = 5
Unterminated
nx HDD-BOX
SCSI ID =
4, 3, ..., 0
Unterminated
SCSI VIDEO3 OUT
SCSI VIDEO2 OUT
SCSI VIDEO1 OUT
SCSI AUDIO OUT
SCSI Cable
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3

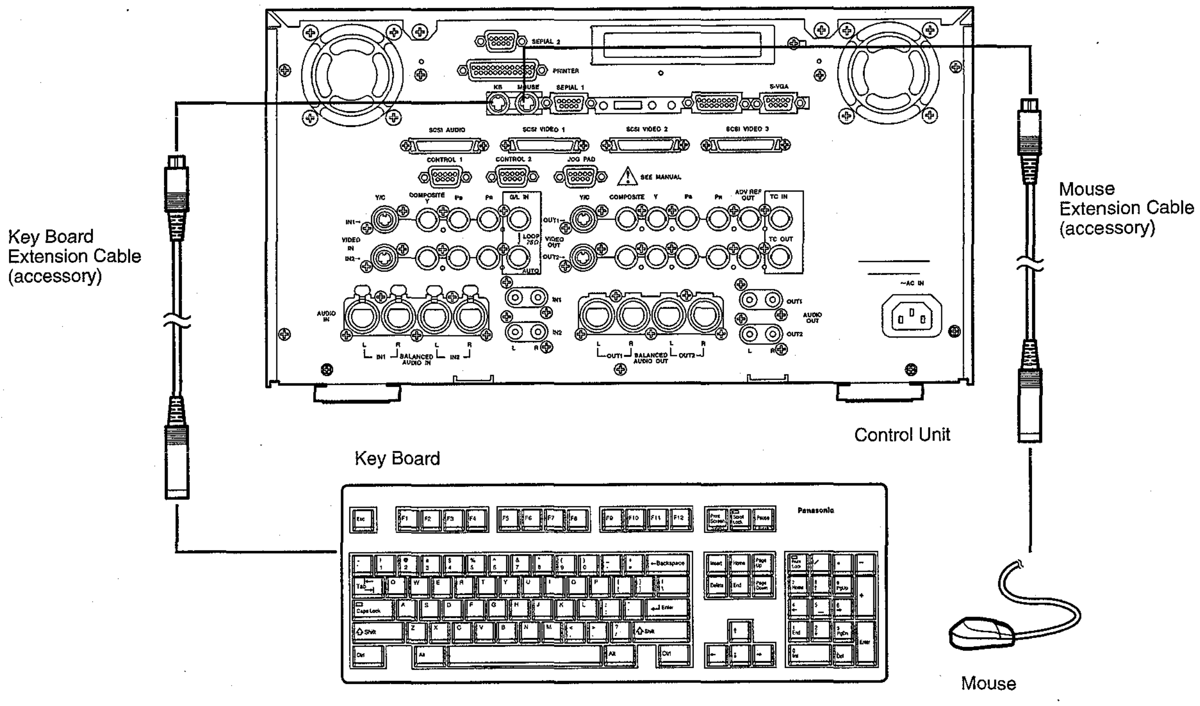
■ Key Board, Mouse and Jog Pad Connections

● Key Board and Mouse

Connect the KEY BOARD Connector of this unit to the Key Board.

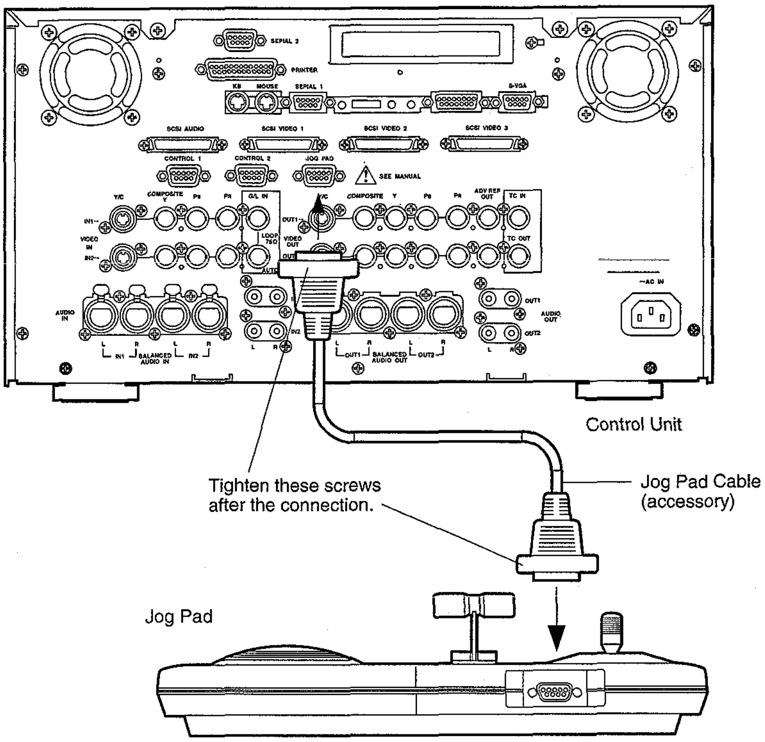
Connect the MOUSE Connector of this unit to the Mouse.

Use the Key Board Extension Cable/Mouse Extension Cable (accessory) for the extension.


Key Board Extension Cable (accessory)
Mouse Extension Cable (accessory)
Control Unit
Key Board
Mouse

• Jog Pad Connection

Connect the JOG PAD Connector (32) of this unit to the Jog Pad.
After connecting, tighten the screws on the Jog Pad Cable (provided).


SERIAL 2
PRINTER
KB
MOUSE
SERIAL 1
S-VGA
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3
CONTROL 1
CONTROL 2
JOG PAD
SEE MANUAL
AUDIO IN
AUDIO OUT
~AC IN
Control Unit
Jog Pad Cable
(accessory)
Tighten these screws
after the connection.
Jog Pad

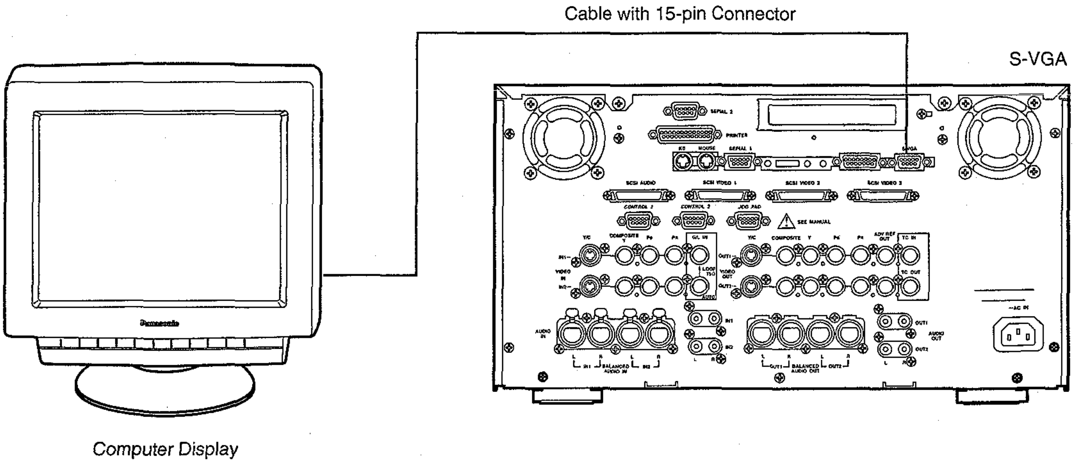
■ Monitor Connection

● Computer Display Connection

Connect the S-VGA Connector of this unit with the computer display.

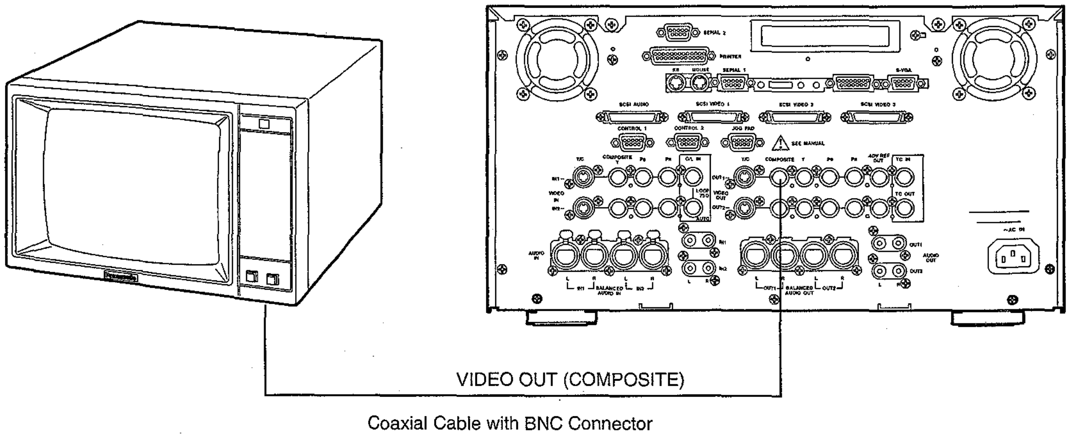
The usable computer display is shown in the following.

Resolution	1024 x 768 dot
Horizontal Scanning Frequency	35 kHz
Vertical Scanning Frequency	86 Hz


Cable with 15-pin Connector
S-VGA
Computer Display

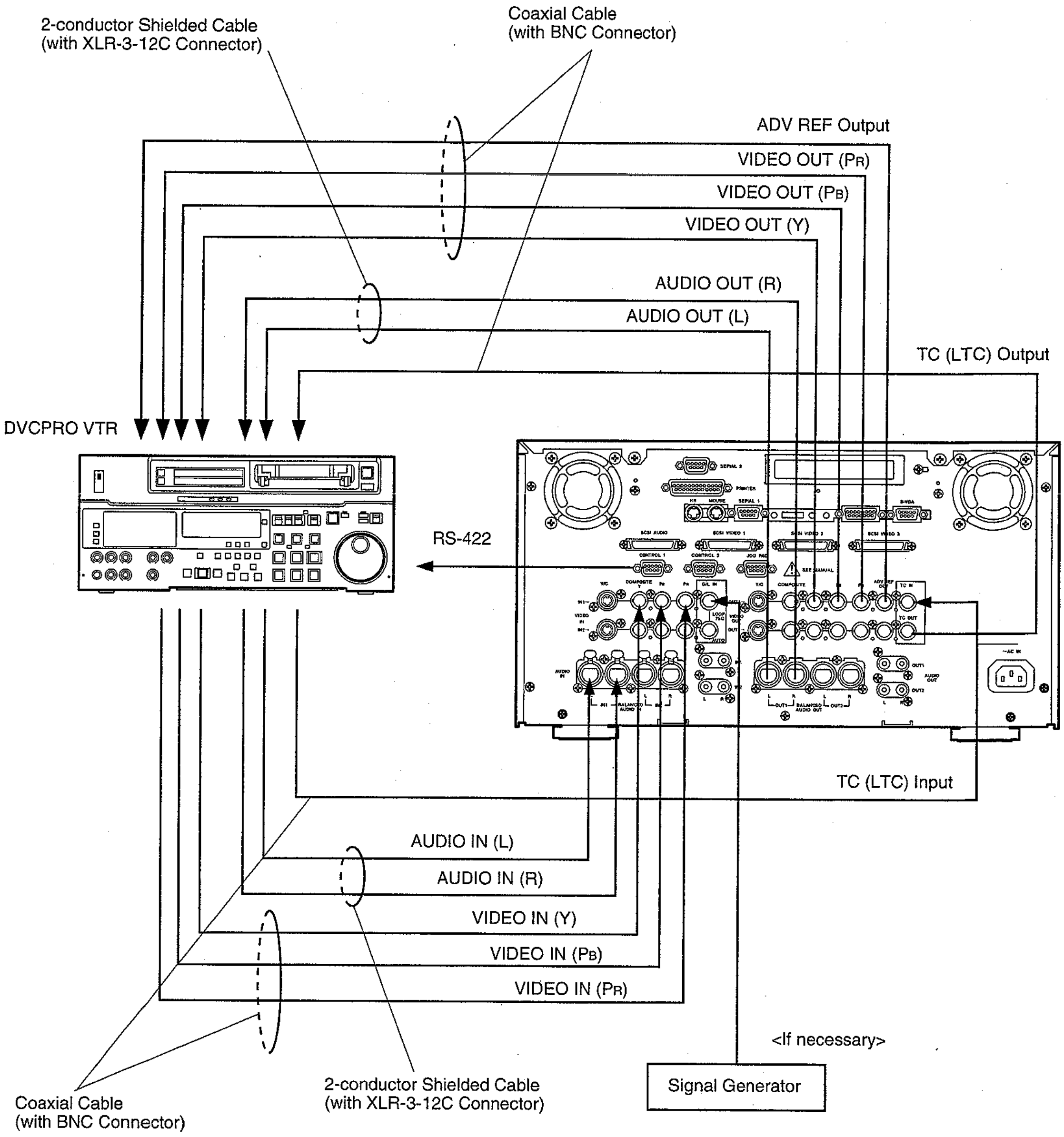
● VIDEO Monitor Connection

Connect the COMPOSITE Connector of this unit with the video monitor.

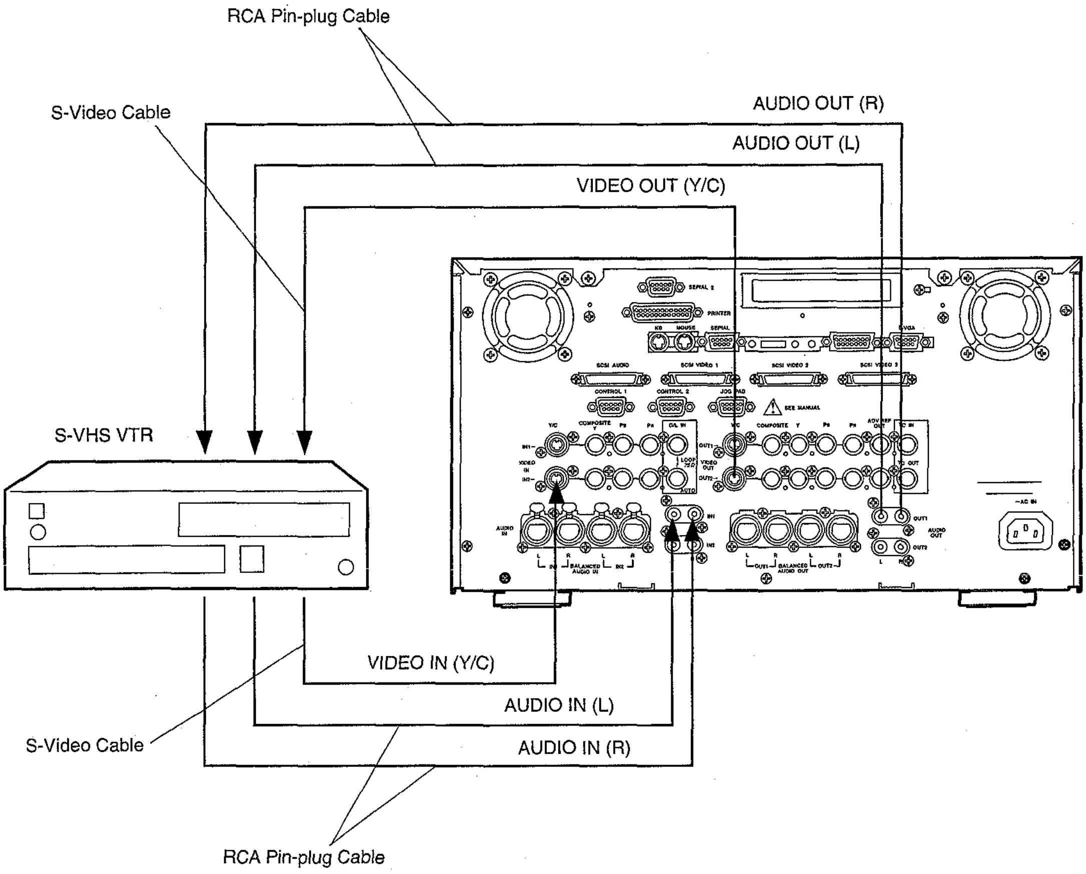

VIDEO OUT (COMPOSITE)
Coaxial Cable with BNC Connector

■ VTR Connection

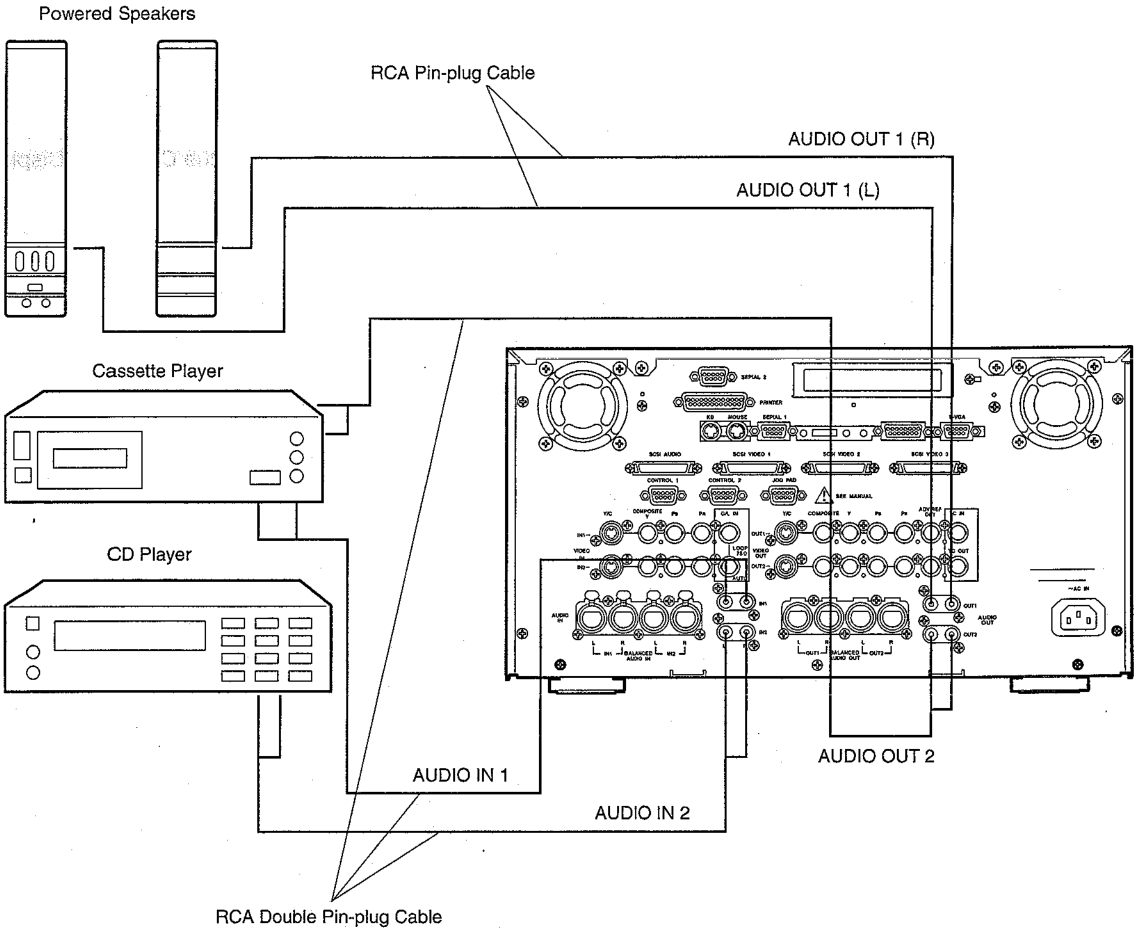
• DVCPRO VTR


2-conductor Shielded Cable (with XLR-3-12C Connector)
Coaxial Cable (with BNC Connector)
ADV REF Output
VIDEO OUT (PR)
VIDEO OUT (PB)
VIDEO OUT (Y)
AUDIO OUT (R)
AUDIO OUT (L)
TC (LTC) Output
DVCPRO VTR
RS-422
TC (LTC) Input
AUDIO IN (L)
AUDIO IN (R)
VIDEO IN (Y)
VIDEO IN (PB)
VIDEO IN (PR)
<If necessary>
Signal Generator
Coaxial Cable (with BNC Connector)
2-conductor Shielded Cable (with XLR-3-12C Connector)

• S-VHS VTR


RCA Pin-plug Cable
S-Video Cable
AUDIO OUT (R)
AUDIO OUT (L)
VIDEO OUT (Y/C)
S-VHS VTR
VIDEO IN (Y/C)
AUDIO IN (L)
AUDIO IN (R)
S-Video Cable
RCA Pin-plug Cable

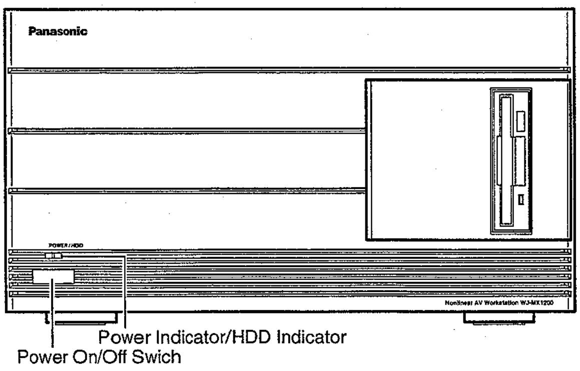
Powered Speaker, Cassette Tape Recorder or CD Player Connection


Powered Speakers
RCA Pin-plug Cable
AUDIO OUT 1 (R)
AUDIO OUT 1 (L)
Cassette Player
CD Player
AUDIO OUT 2
AUDIO IN 1
AUDIO IN 2
RCA Double Pin-plug Cable

POWERING Main Kit ON AND OFF

Power On

1. Turn on the power of the HDD-BOX and all peripheral equipment in the system.
   The power indicator of the HDD-BOX lights red.
2. Turn on the power of this unit.
   The Power Indicator (2) of this unit lights and the system is activated.


Panasonic
POWER/HDD
Nonlinear AV Workstation WJ-MX1200
Power Indicator/HDD Indicator
Power On/Off Swich

Power Off

CAUTION:

Be sure to turn off the power of this unit only after the nonlinear AV workstation software is closed.
Otherwise, the data on the HD or HDD unit may be corrupted.

1. Quit the software and Windows.
   Refer to the Users Manual of the WJ-MX1200 for details.
2. Turn off the power of the peripheral equipment.
3. Turn off the power of this unit.

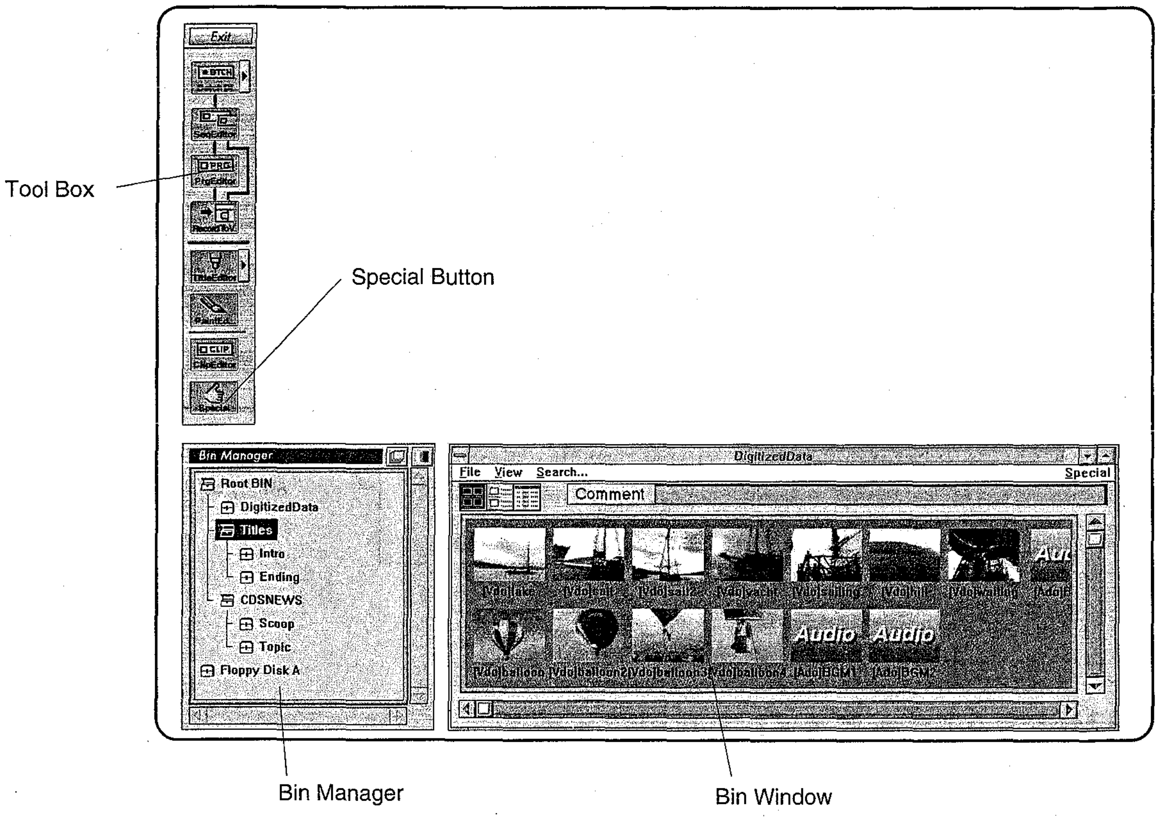
OPERATING PROCEDURES

Refer to the User's Manual or Reference Manual for more details.

■ Starting the System

1. Turn on the power of the peripheral equipment in the system.
2. Then turn on the Main Kit.
   The system starts and the initial window (Tool Box, Bin Manager or Bin Window) appears on the Computer Display.

Computer Display is shown below.


Exit
BTCH
SeqEditor
PRG
PrgEditor
RecordToV
TitleEditor
PaintEdit
CLIP
ClipEditor
Special
Tool Box
Special Button
Bin Manager
Root BIN
DigitizedData
Titles
Intro
Ending
CDSNEWS
Scoop
Topic
Floppy Disk A
DigitizedData
File
View
Search...
Special
Comment
Audio
Audio
Bin Manager
Bin Window

■ Closing the System

1. Click "Exit" on the Tool Box.
2. Click "OK".
3. Turn off the power of the peripheral equipment in the system and then the Main Kit.

■ Installing the Software Package

You should install the application program (provided on floppy disks with the WJ-AS1200) into the Main Kit to operate this system.

Note : Back-up Windows 95 before the installing the application program and font.

Install an Application Program

1. Turn on the peripheral equipment of the system.
2. Then turn on the Main Kit.
   Windows 95 starts up.
3. Click “START“.
   The Pull Down menu is displayed.
4. Click “RUN....”.
5. Insert the [DISK No1] floppy disk into the FDD.
6. Type “A:\SETUP” from the keyboard and click “OK”.
   The initial setup window appears.
7. Click “Continue”.
   The input screen appears.
8. Click “Continue”.
   Then type your name, company and the serial number of the Main Kit from the keyboard.
9. Click “Continue”.
   The Locale dialog panel is displayed.
10. Select "NTSC [English]" and click "Continue".
    The Confirmation dialog panel is displayed. Click "Install".
11. “Please insert the diskette labeled:disk2” is displayed.
12. Insert the “DISK No2” floppy disk into the FDD and click “OK”.
13. Copy the contents of all floppy disks into the Main Kit according to the message on the computer display.

■ Installing Fonts

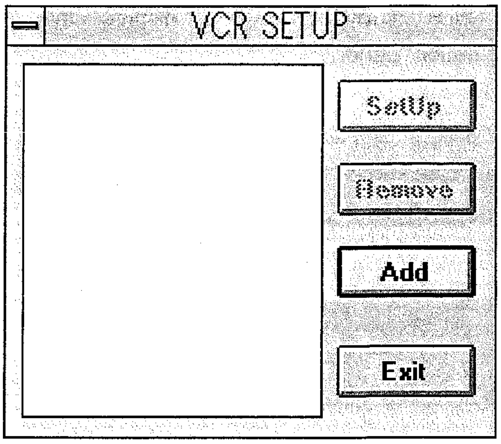
1. Turn on the Main Kit.
   The application program starts up.
2. Double click “Special” in the Tool Box.
   The Setup panel appears.
3. Click “Font” on the Setup panel.
   Click “Append All” and combine the necessary fonts with the application program.

■ Device Setting

Refer to the Reference Manual of WJ-AS1200 for more details.

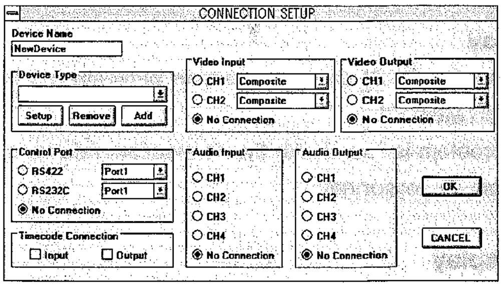
1. Double click “Special” in the Tool Box.
2. Double click “Device” in the Setup Panel.
   The “VTR SETUP” window is displayed.

Device Setup Window



3. Click “SetUp” in the Device Window.
   The “Connection Setup” panel is displayed.

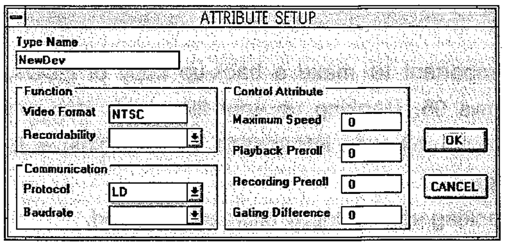
Connection Setup Panel



Device Name: NewDevice
Device Type:
Video Input: ○ CH1 Composite; ○ CH2 Composite; ● No Connection
Video Output: ○ CH1 Composite; ○ CH2 Composite; ● No Connection
Control Port: ○ RS422 Port1; ○ RS232C Port1; ● No Connection
Timecode Connection: ☐ Input ☐ Output
Audio Input: ○ CH1 ○ CH2 ○ CH3 ○ CH4 ● No Connection
Audio Output: ○ CH1 ○ CH2 ○ CH3 ○ CH4 ● No Connection

4. Set the necessary items.
5. Click “SetUp” or “Add”.
   The “Attribute Setup” panel is displayed.

Attribute Setup Panel



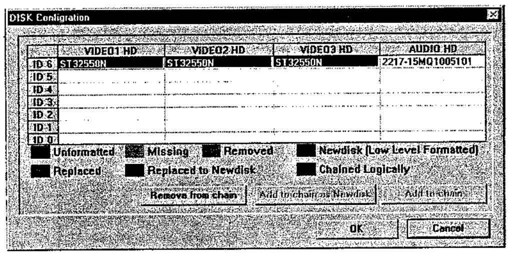
Type Name: NewDev
Function
Video Format: NTSC
Recordability:
Communication
Protocol: LD
Baudrate:
Control Attribute
Maximum Speed: 0
Playback Preroll: 0
Recording Preroll: 0
Gating Difference: 0

Operation Confirmation

Refer to the Reference Manual for the AVHDD Maintenance tools.

1. Double click “Special” in the Tool Box.
   “Setup Panel” is displayed.
2. Double click “AV HDD” to display the “AV HDD Maintenance tool” panel.
3. Click “disk configuration” to display the "Disk Configuration“ panel.

DISK Configuration Panel



DISK Configration

	VIDEO1 HD	VIDEO2 HD	VIDEO3 HD	AUDIO HD
ID 6	ST32550N	ST32550N	ST32550N	2217-15MQ1005101
ID 5				
ID 4				
ID 3				
ID 2				
ID 1				
ID 0				

4. The HDD model numbers are displayed in the "Disk Configuration" panel.

   Note: All HDD model numbers should be displayed in blue.

No Display

- Confirm the SCSI cable connection between the HDD-Box and Main Kit.
- If no problem is found with the connection, refer to qualified service personnel.

Black Display

- Initialization of the HDD displayed in black (in the "Disk Configuration" panel) is not possible.
  In this case , refer to qualified service personnel.

Red Display

- Click on “Add to chain as Newdisk” for logical formating.

Caution

- It is important to make a back-up copy of HDDs, and Windows 95. Backing up your files and disks ensures that you won't lose information if the original is lost or damaged.
- For backing up, 30 floppy disks are required.

Back-up of Windows 95

1. Format 29 floppy disks.
2. Click [EXIT], then click [Restart Windows].
3. Click [Start] and select [Programs] → [Accessories] → [System Tools Create System Disks].
4. Insert the floppy disk into the Floppy Disk Drive according to the message.
5. Write WIN-0,1...28 on the labels of the backed-up floppy disks.

Caution

Only 1 set of back-up disks can be made.

Reloading Windows

1. Keep the 29 Windows 95 back-up disks ready.
2. Insert the [WIN-0] floppy disk into the FDD, and turn the main power on.
3. Reload the floppy disks from [WIN-0] to [WIN-28].

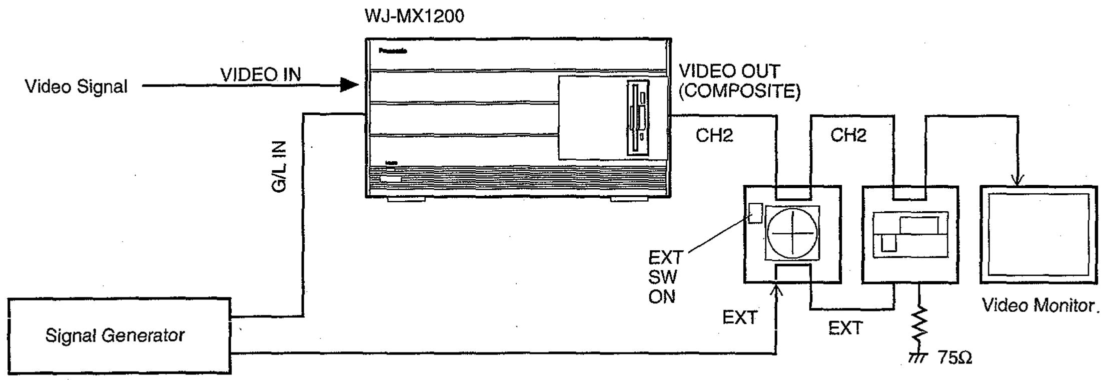
ADJUSTMENT

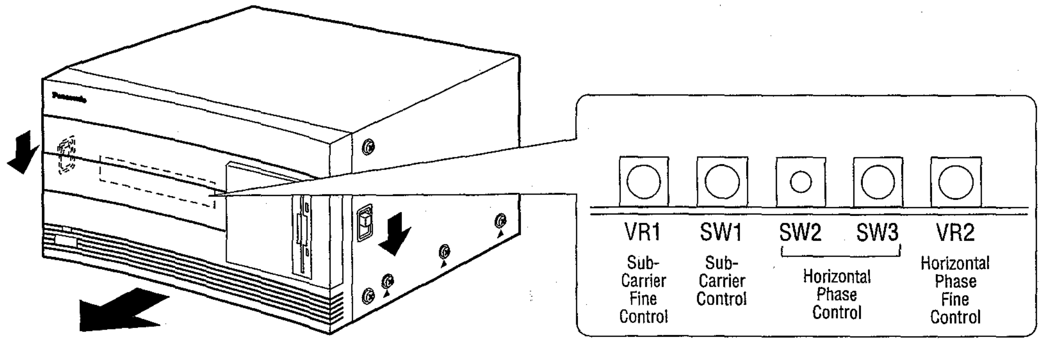
• Gen-lock Adjustment

Phase adjustments must be performed by using the switches inside the Front Panel when external synchronizing signals are supplied to the system.

For the example, the gen-lock adjustment is shown below using a two-channel oscilloscope (or wave form monitor), vector scope and signal generator.

1. Connect the oscilloscope, vector scope and signal generator with the Main Kit WJ-MX1200.
   The reference signal is supplied from the signal generator.
   The video signal should be a composite signal.
2. Turn on the *external reference* switch of the vector scope.
3. Remove the Front Panel by pressing down the Front Panel Remove Buttons (7) on the left and right sides.

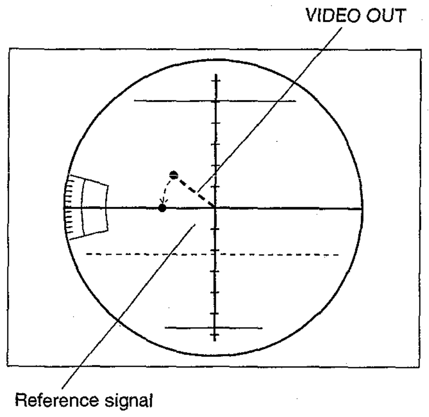

WJ-MX1200
Video Signal
VIDEO IN
VIDEO OUT
(COMPOSITE)
G/L IN
CH2
CH2
EXT
SW
ON
EXT
EXT
Video Monitor
75Ω
Signal Generator


VR1
SW1
SW2
SW3
VR2
Sub-
Carrier
Fine
Control
Sub-
Carrier
Control
Horizontal
Phase
Control
Horizontal
Phase
Fine
Control

• Colour Phase Control

The sub-carrier can be adjusted by using the SW1 and VR1.

1. Turn the SW1 to clockwise ; 0°, 90°, 180°, 270°
   Turn the SW1 to counterclockwise ;
   270°, 180°, 90°, 0°
2. Perform the fine adjustment with the VR1.

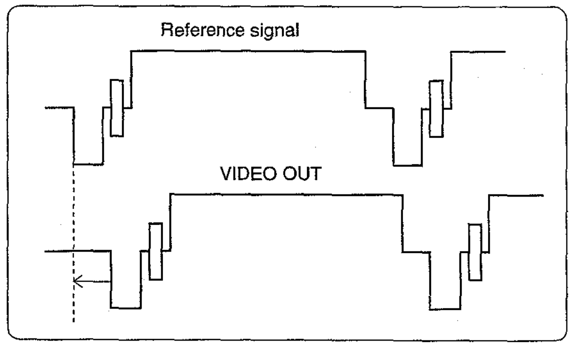

VIDEO OUT
Reference signal

• Horizontal Phase Control

Observe the waveform of the external synchronizing input signal (black burst signal) and video output signal on a two-channel oscilloscope.

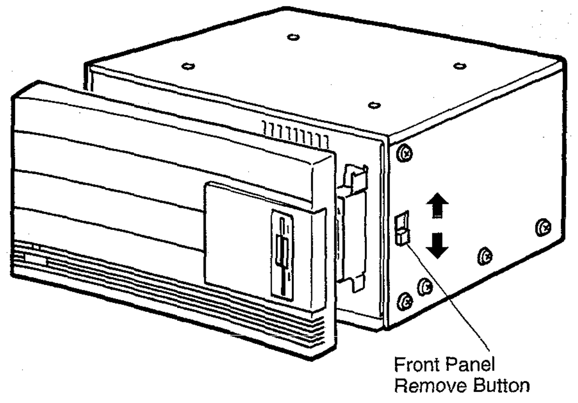
Then match the horizontal phase of both signals by using the SW2, SW3 and VR2.

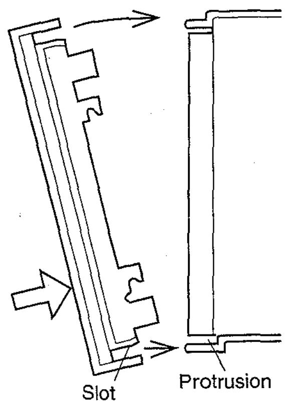
1. The horizontal phase course 1 adjustment can be performed with the SW3 (1 µs).
2. The horizontal phase course 2 adjustment can be performed with the SW2. (70 ns).
3. The horizontal phase fine adjustment can be performed with the VR2.


Reference signal
VIDEO OUT

• Install the Front Panel

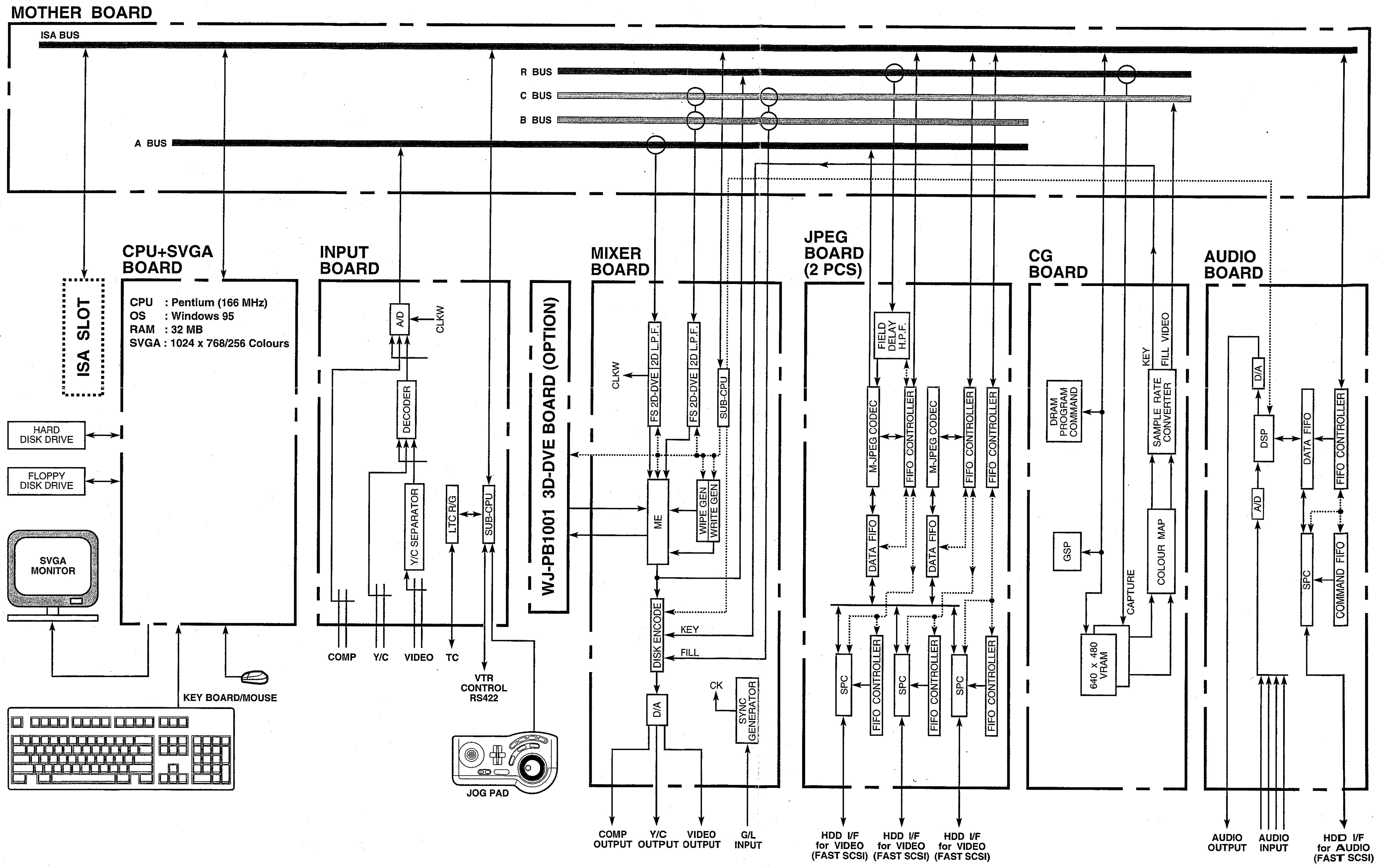
After the above adjustments, install the front panel as shown below.


Front Panel
Remove Button


Slot
Protrusion

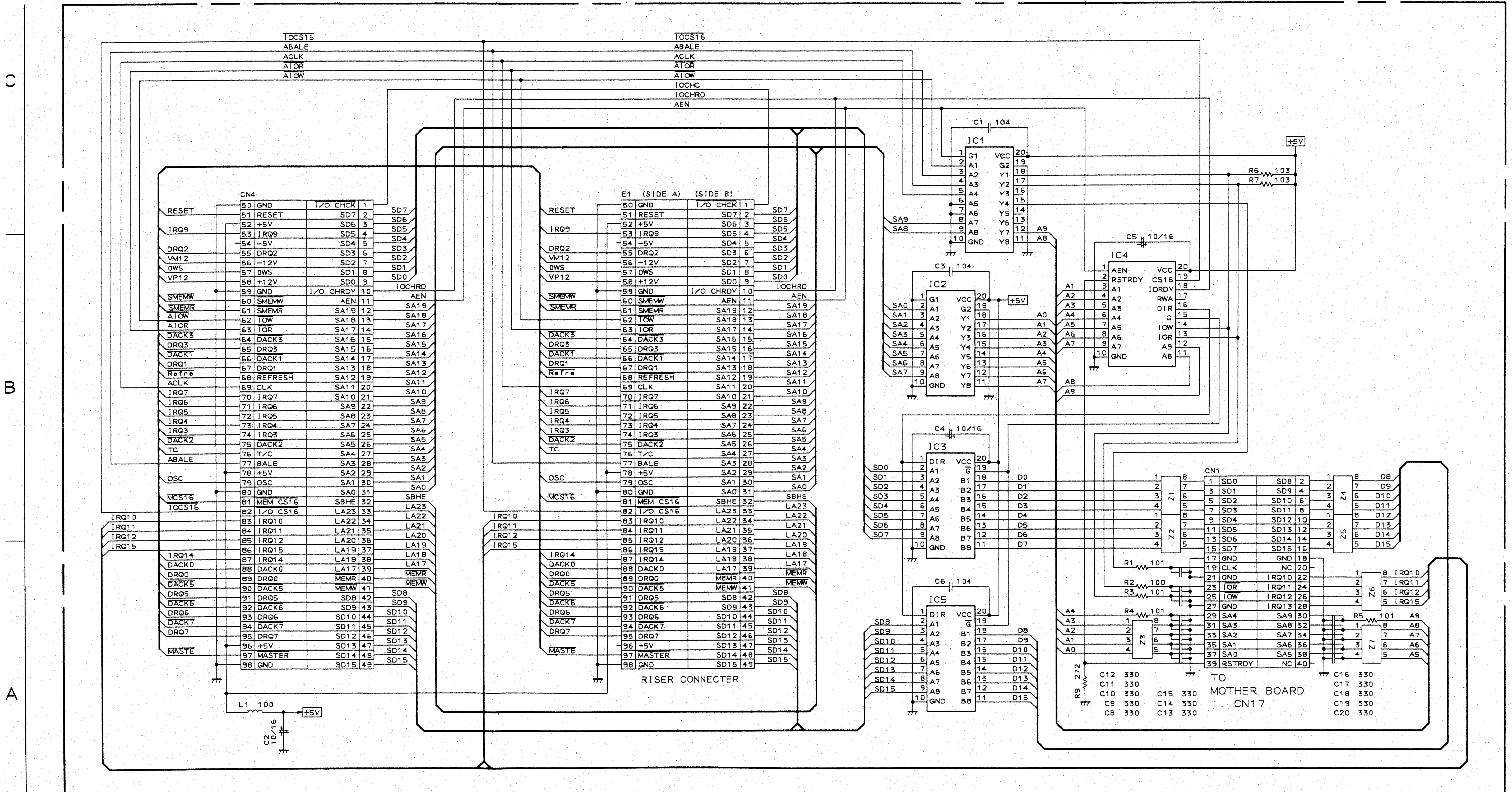
1. Press down (⬇) the Front Panel Remove Buttons (7) on both the left and right sides.
2. Place the panel as shown above figure.
   Insert the slot on the panel to the protrusion, then press the panel to the front of the Main Kit.
3. Press up (⬆) the Front Panel Remove Buttons (7) on both the left and right sides.
4. Confirm the Front Panel is tightened firmly.

OVERALL BLOCK DIAGRAM

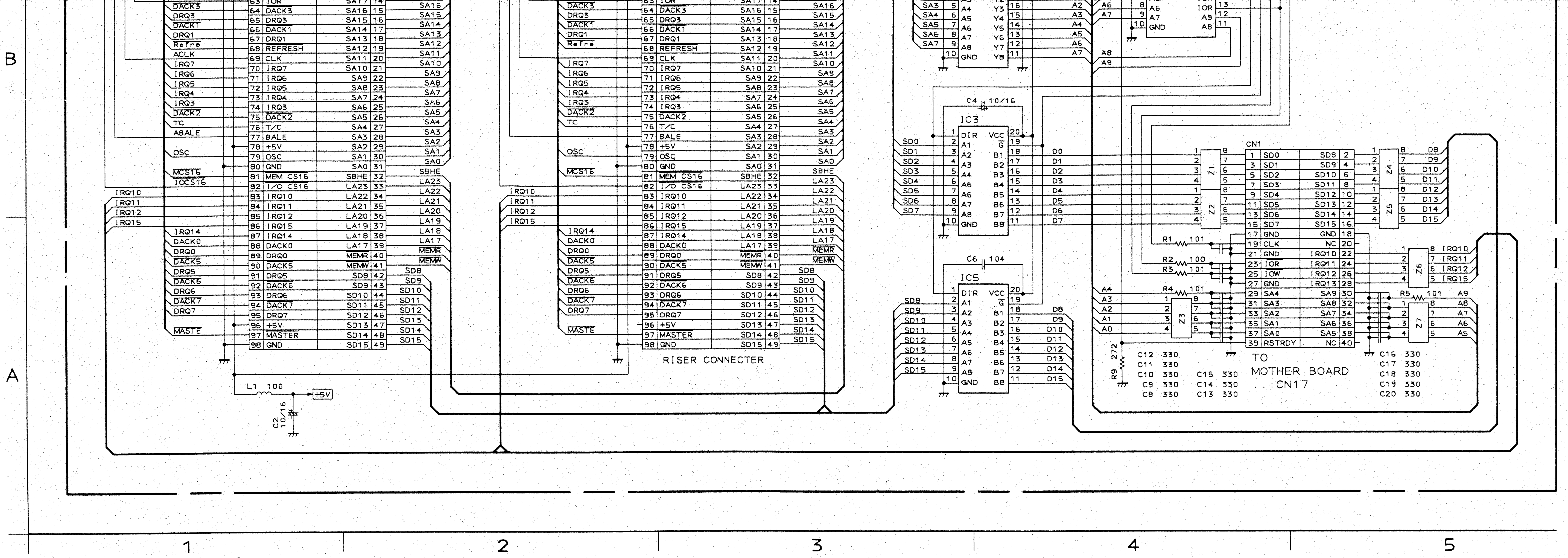

MOTHER BOARD
ISA BUS
R BUS
C BUS
B BUS
A BUS
ISA SLOT
CPU+SVGA BOARD
CPU : Pentium (166 MHz)
OS : Windows 95
RAM : 32 MB
SVGA : 1024 x 768/256 Colours
HARD DISK DRIVE
FLOPPY DISK DRIVE
SVGA MONITOR
KEY BOARD/MOUSE
INPUT BOARD
A/D
CLKW
DECODER
Y/C SEPARATOR
LTC R/G
SUB-CPU
COMP
Y/C
VIDEO
TC
VTR CONTROL RS422
JOG PAD
WJ-PB1001 3D-DVE BOARD (OPTION)
MIXER BOARD
CLKW
FS 2D L.P.F.
2D-DVE
FS 2D L.P.F.
2D-DVE
SUB-CPU
ME
WIPE GEN
WRITE GEN
DISK ENCODE
KEY
FILL
D/A
CK
SYNC GENERATOR
COMP OUTPUT
Y/C OUTPUT
VIDEO OUTPUT
G/L INPUT
JPEG BOARD (2 PCS)
FIELD DELAY H.P.F.
M-JPEG CODEC
FIFO CONTROLLER
M-JPEG CODEC
FIFO CONTROLLER
FIFO CONTROLLER
DATA FIFO
DATA FIFO
SPC
FIFO CONTROLLER
SPC
FIFO CONTROLLER
SPC
FIFO CONTROLLER
HDD I/F for VIDEO (FAST SCSI)
HDD I/F for VIDEO (FAST SCSI)
HDD I/F for VIDEO (FAST SCSI)
CG BOARD
DRAM PROGRAM COMMAND
KEY
FILL VIDEO
SAMPLE RATE CONVERTER
GSP
CAPTURE
COLOUR MAP
640 x 480 VRAM
AUDIO BOARD
D/A
DSP
A/D
DATA FIFO
FIFO CONTROLLER
SPC
COMMAND FIFO
AUDIO OUTPUT
AUDIO INPUT
HDD I/F for AUDIO (FAST SCSI)

SCHEMATIC DIAGRAM OF INTERFACE BOARD

INTERFACE BOARD



CN4
E1 (SIDE A) (SIDE B)
RISER CONNECTER
IC1
IC2
IC3
IC4
IC5
C1 104
C3 104
C4 10/16
C5 10/16
C6 104
+5V
R6 103
R7 103
CN1
TO MOTHER BOARD ...CN17
Z1
Z2
Z3
Z4
Z5
Z6
Z7
R1 101
R2 100
R3 101
R4 101
R5 101
R9 272
C12 330
C11 330
C10 330
C9 330
C8 330
C15 330
C14 330
C13 330
C16 330
C17 330
C18 330
C19 330
C20 330
L1 100
C2 10/16
IOCS16
ABALE
ACLK
AIOR
AIOW
IOCHC
IOCHRD
AEN
C
B
A


B
A
1
2
3
4
5
RISER CONNECTER
IC3
IC5
C4 10/16
C6 104
CN1
TO
MOTHER BOARD
...CN17
L1 100
C2 10/16
+5V
R1 101
R2 100
R3 101
R4 101
R5 101
R9 272
Z1
Z2
Z3
Z4
Z5
Z6
Z7
C12 330
C11 330
C10 330
C9 330
C8 330
C15 330
C14 330
C13 330
C16 330
C17 330
C18 330
C19 330
C20 330

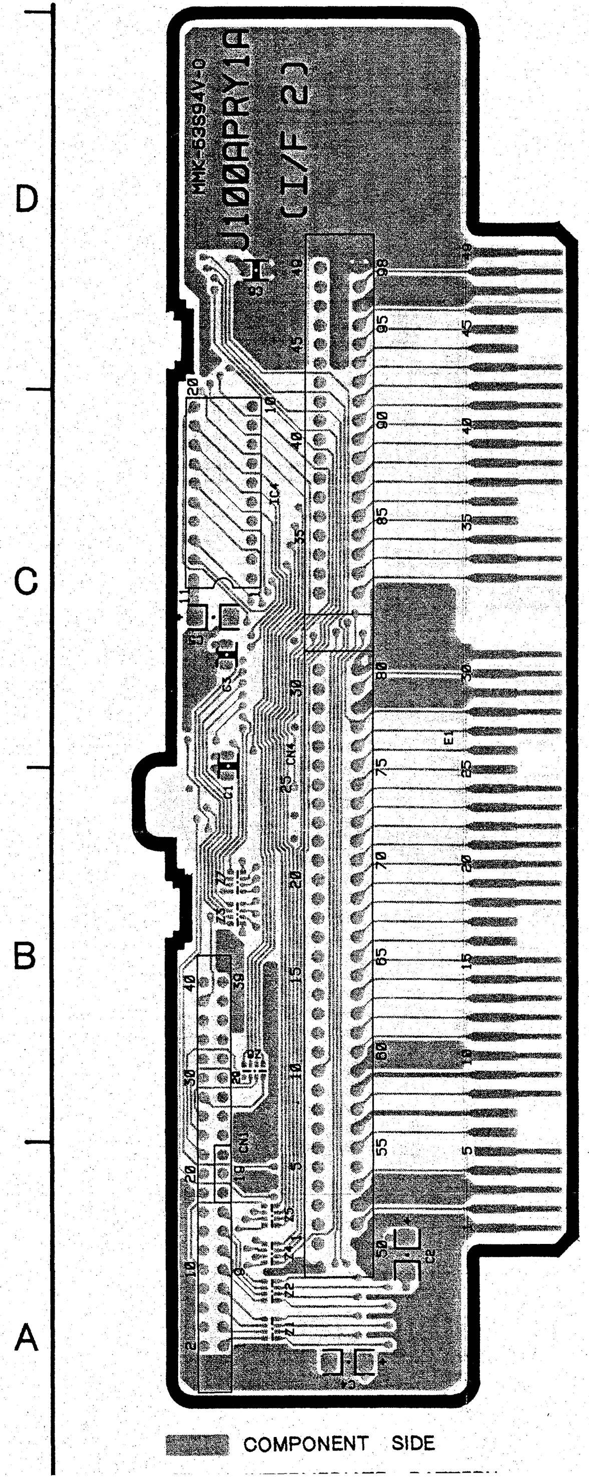
<Index>
INTERFACE BOARD

IC1	B3
IC2	C3
IC3	A3
IC4	C1
IC5	D3

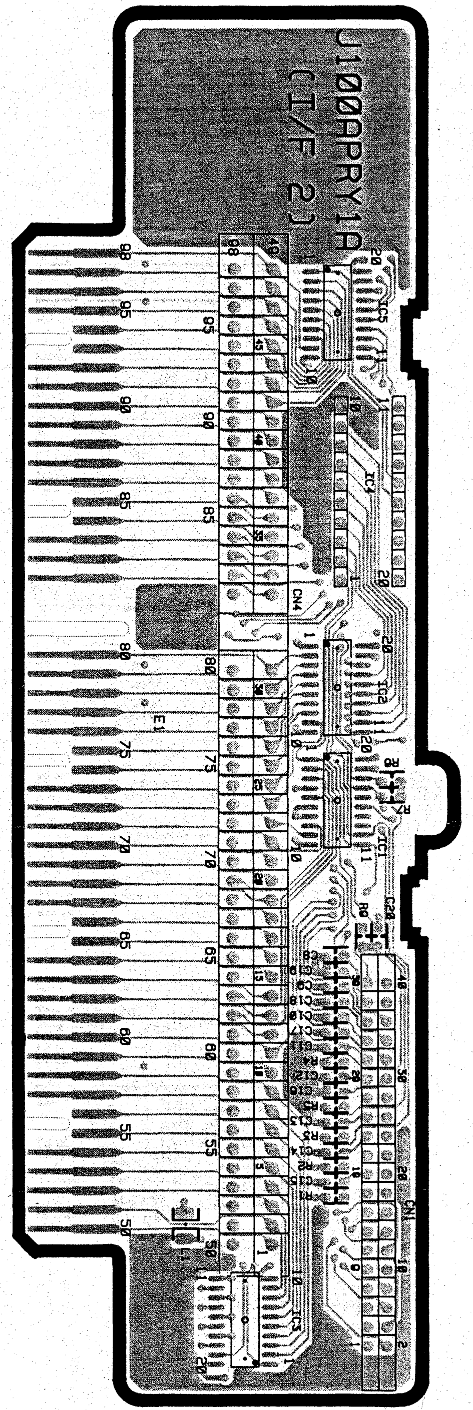
CONDUCTOR VIEW OF INTERFACE BOARD

INTERFACE BOARD

(COMPONENT SIDE VIEW)

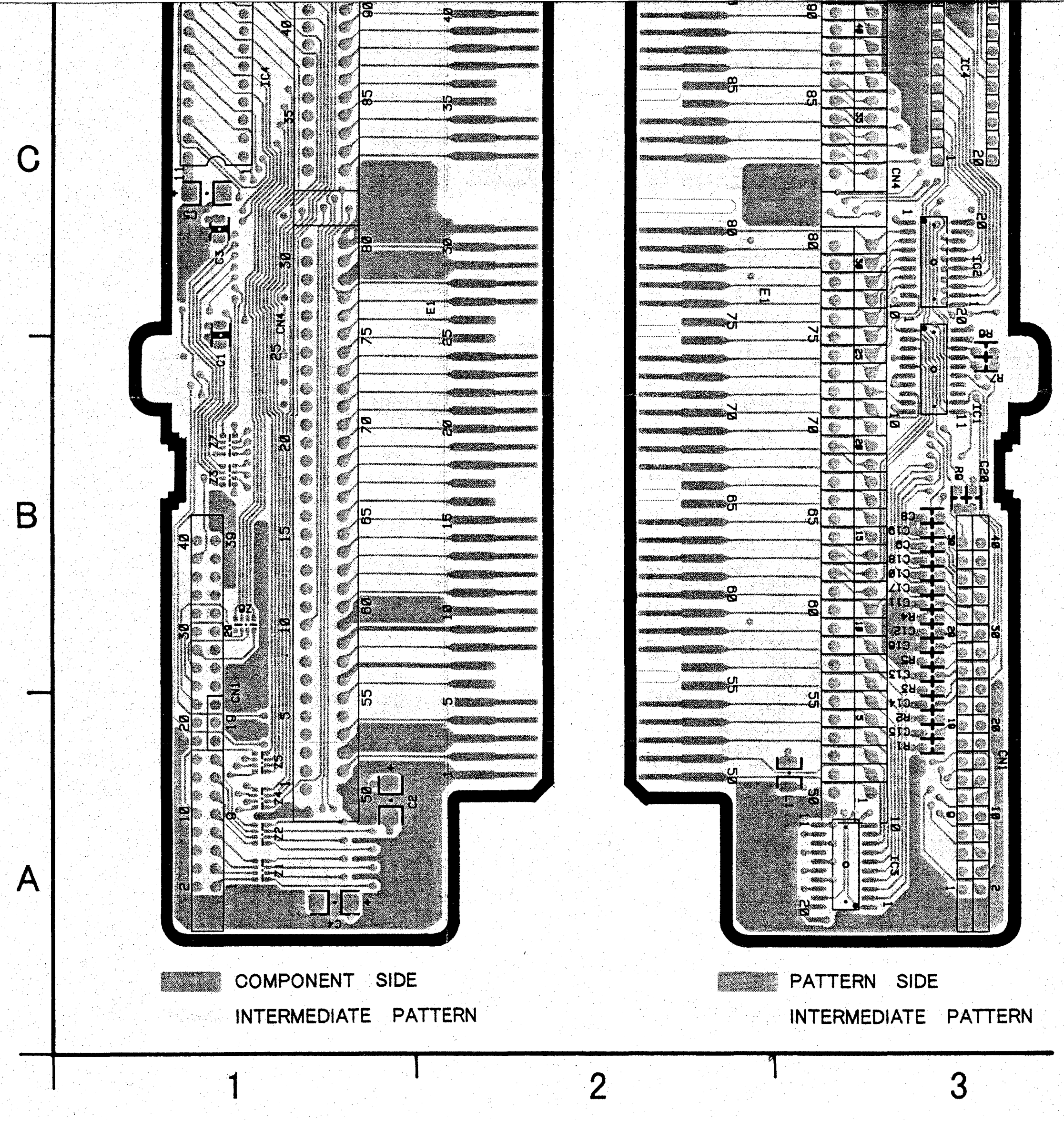

D
C
B
A
WMK-63594V-0
J100APRY1A
(I/F 2)
IC4
CN4
CN1
E1

(PATTERN SIDE VIEW)


J100APRY1A
(I/F 2)
IC4
CN4
CN1
E1

▨ COMPONENT SIDE

▨ PATTERN SIDE


C
B
A
1
2
3
CN1
CN4
IC1
IC2
IC3
IC4
E1
▨ COMPONENT SIDE
INTERMEDIATE PATTERN
▨ PATTERN SIDE
INTERMEDIATE PATTERN

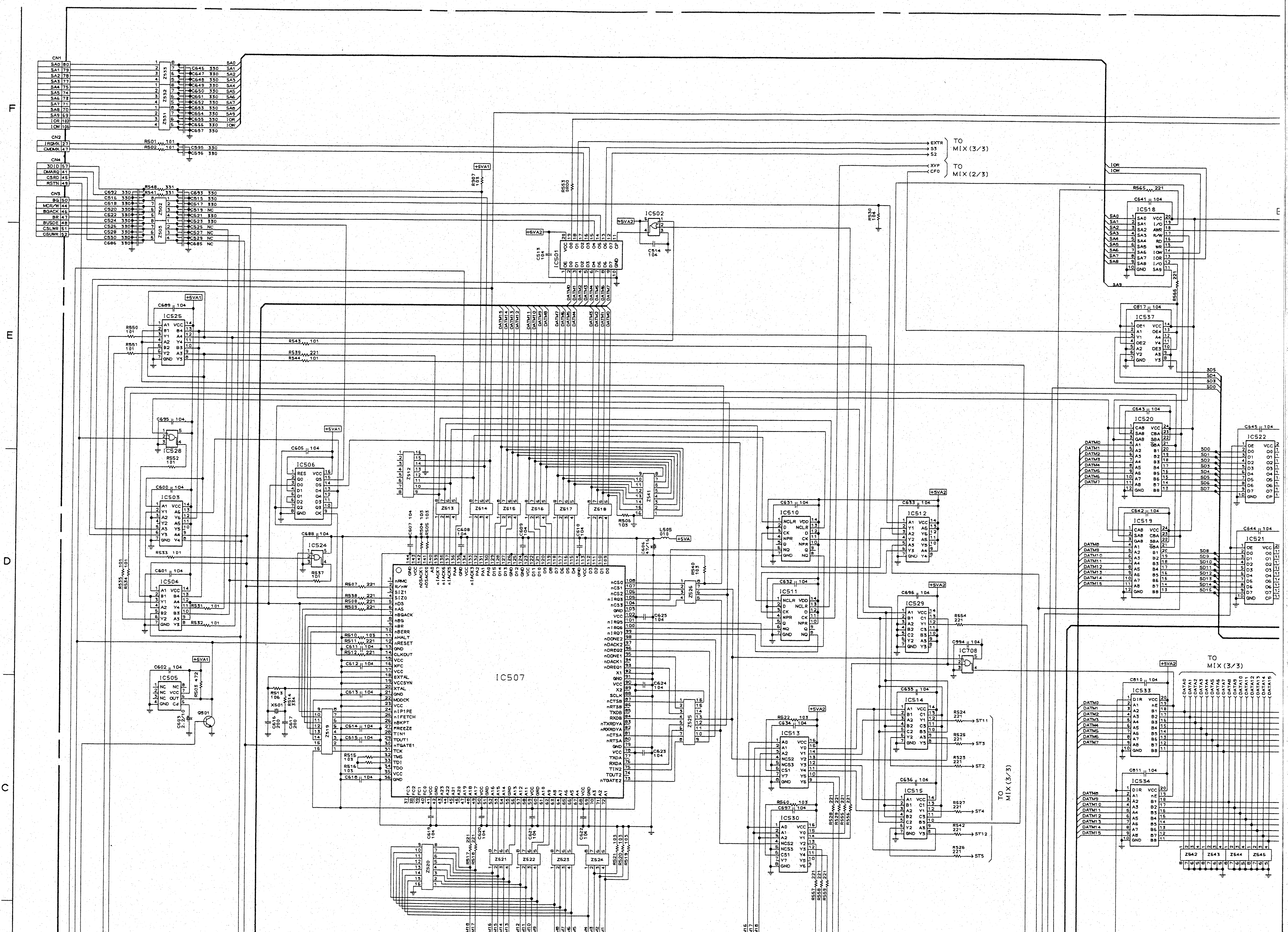
<Index>

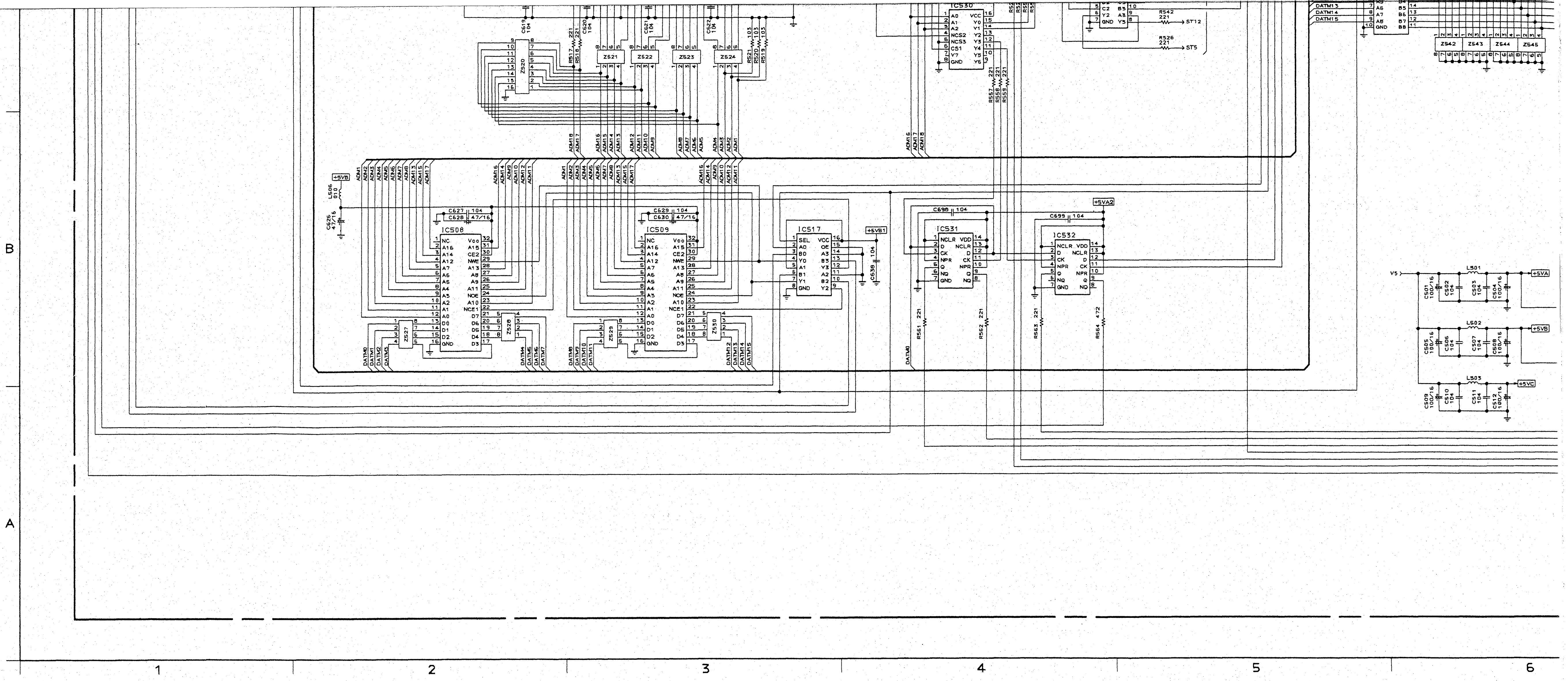
INTERFACE BOARD

IC1	C4
IC2	B4
IC3	B4
IC4	B4
IC5	A4

SCHEMATIC DIAGRAM OF MI

MIXER BOARD (1/3)


F
E
D
C
CN1
CN2
CN3
CN4
IRQMIX
CMDMIX
3DID
DMARQ
CSRD
RSTN
BG
MCR/W
BOACK
BR
BUSDE
CSLWR
CSUWR
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
IOR
IOW
EXTR
S3
S2
TO MIX (3/3)
XVP
CF0
TO MIX (2/3)
+5VA1
+5VA2
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC510
IC511
IC512
IC513
IC514
IC515
IC518
IC519
IC520
IC521
IC522
IC524
IC525
IC528
IC529
IC530
IC533
IC534
IC537
IC708
Q501
X501
L505
ST11
ST3
ST2
ST4
ST12
ST5
TO MIX (3/3)
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
DATM0
DATM1
DATM2
DATM3
DATM4
DATM5
DATM6
DATM7
DATM8
DATM9
DATM10
DATM11
DATM12
DATM13
DATM14
DATM15
TO MIX (3/3)
Z513
Z514
Z515
Z516
Z517
Z518
Z519
Z520
Z521
Z522
Z523
Z524
Z525
Z526
Z531
Z532
Z533
Z541
Z542
Z543
Z544
Z545

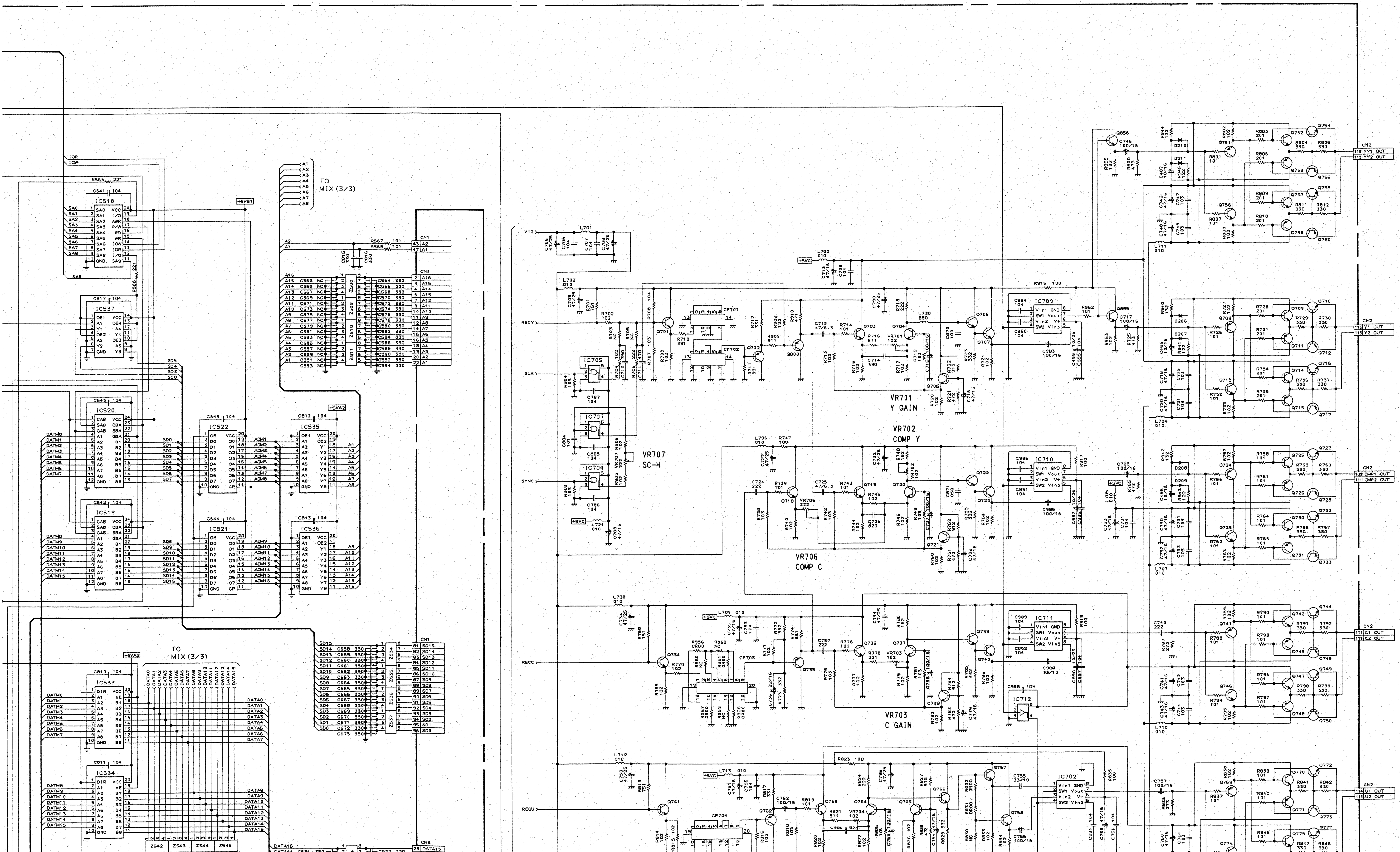


<Index>

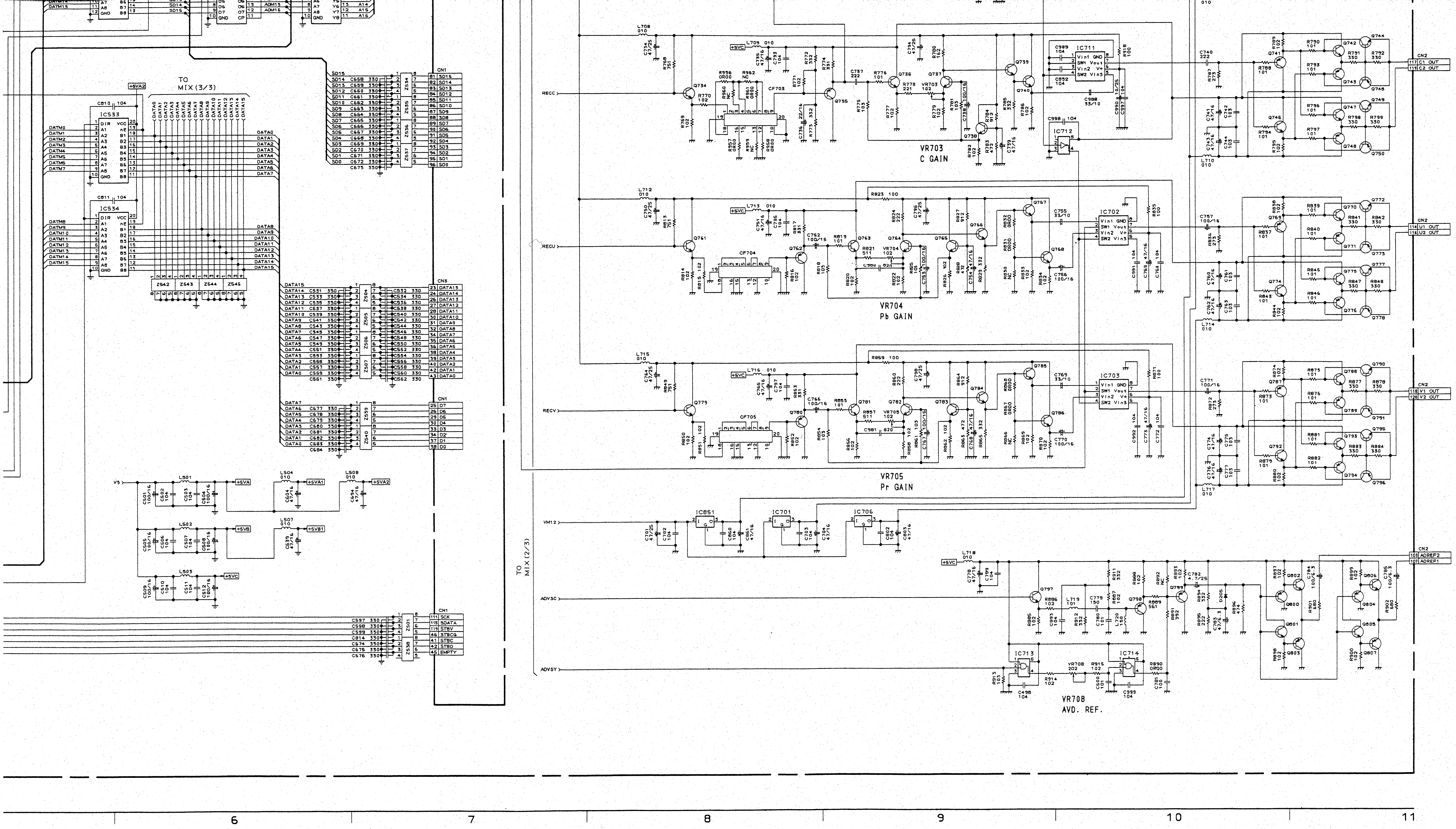
MIXER BOARD(1/3)

IC501	E3
IC502	F3
IC503	D1
IC504	D1
IC505	C1
IC506	D2
IC507	D3
IC508	B2
IC509	B3
IC510	D4
IC511	D4
IC512	D4
IC513	C4
IC514	C4
IC515	C4
IC517	B3
IC518	F5
IC519	D5
IC520	E5
IC521	D6
IC522	E6
IC524	D2
IC525	E1
IC528	E1
IC529	D4
IC530	C4
IC531	B4
IC532	B4
IC533	C5
IC534	C5
IC535	E6
IC536	D6
IC537	E5
IC701	B8
IC702	C10
IC703	B10
IC704	D8
IC705	E8
IC706	B9
IC707	E8
IC708	D5
IC709	E10
IC710	D10
IC711	D10
IC712	C10
IC713	A9
IC714	A10
IC851	B8
IC704	D8
IC705	E8
IC706	B9
IC707	E8
IC708	D5
IC709	E10
IC710	D10
IC711	D10
IC712	C10
IC713	A9
IC714	A10
IC851	B8
Q501	C1
Q701	E8
Q702	E8
Q703	E9
Q704	E9
Q705	E9
Q706	E9
Q707	E9
Q708	E10
Q709	E11
Q710	E11
Q711	E11
Q712	E11
Q713	E10
Q714	E11
Q715	E11
Q716	E11
Q717	E11
Q718	D9
Q719	D9
Q720	D9
Q721	D9
Q722	D9
Q723	D9
Q724	D10
Q725	D11
Q726	D11
Q727	D11
Q728	D11
Q729	D10
Q730	D11
Q731	D11
Q732	D11
Q733	D11
Q734	D8
Q735	D9
Q736	D9
Q737	D9
Q738	D9
Q739	D9
Q740	D9
Q741	D10
Q742	D11
Q743	D11
Q744	D11
Q745	D11
Q746	C10
Q747	C11
Q748	C11
Q749	C11
Q750	C11
Q751	F10
Q752	F11
Q753	F11
Q754	F11
Q755	F11
Q756	F10
Q757	F11
Q758	E11
Q759	F11
Q760	E11
Q761	C8
Q762	C8
Q763	C9
Q764	C9
Q765	C9
Q766	C9
Q767	C9
Q768	C9
Q769	C10
Q770	C11
Q771	C11
Q772	C11
Q773	C11
C774	C10
Q775	C11
Q776	C11
Q777	C11
Q778	C11
Q779	B8
Q780	B8
Q781	B9
Q782	B9
Q783	B9
Q784	B9
Q785	B9
Q786	B9
Q787	B10
Q788	B11
Q789	B11
Q790	B11
Q791	B11
C792	B10
Q793	B11
Q794	B11
Q795	B11
Q796	B11
Q797	A9
Q798	A10
Q799	A10
Q800	A10
Q801	A10
Q802	A11
Q803	A11
Q804	A11
Q805	A11
Q806	A11
Q807	A11
Q808	E9
Q855	E10
Q856	F10
D205	A10
D206	E10
D207	E10
D208	D10
D209	D10
D210	F10
D211	F10

IC DIAGRAM OF MIXER BOARD (1/3)

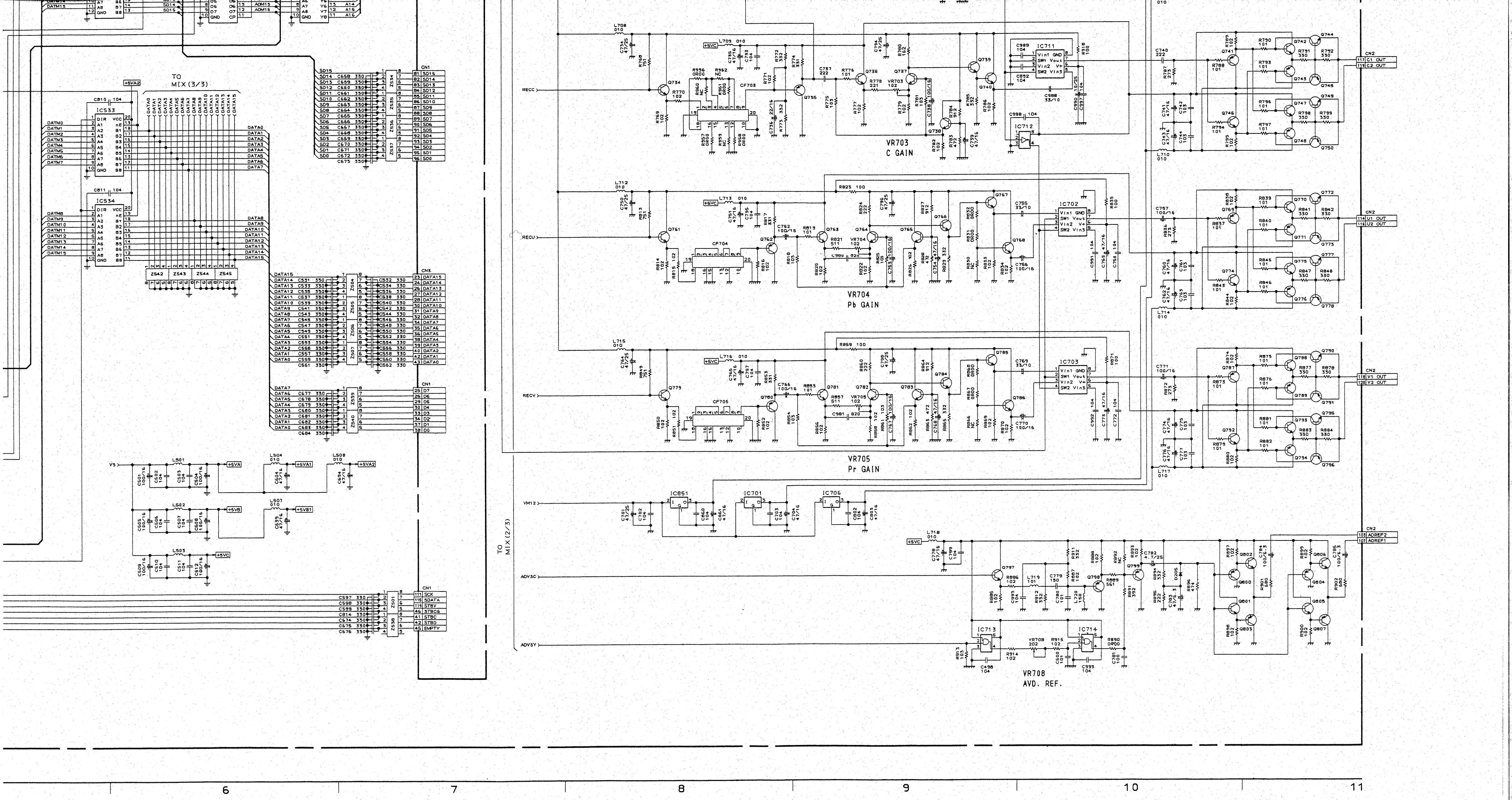


IC518
IC537
IC520
IC519
IC522
IC521
IC535
IC536
IC533
IC534
TO MIX (3/3)
TO MIX (3/3)
CN1
CN3
CN5
+5VB1
+5VA2
V12
RECY
BLK
SYNC
RECC
RECU
+5VC
IC705
IC707
IC704
VR707 SC-H
VR701 Y GAIN
VR702 COMP Y
VR706 COMP C
VR703 C GAIN
IC709
IC710
IC711
IC712
IC702
CF701
CF702
CF703
CF704
CN2
YY1 OUT
YY2 OUT
Y1 OUT
Y2 OUT
CMP1 OUT
CMP2 OUT
C1 OUT
C2 OUT
U1 OUT
U2 OUT


TO
MIX (3/3)
IC533
IC534
DATM0
DATM1
DATM2
DATM3
DATM4
DATM5
DATM6
DATM7
DATM8
DATM9
DATM10
DATM11
DATM12
DATM13
DATM14
DATM15
DATA0
DATA15
Z542
Z543
Z544
Z545
Z534
Z535
Z536
Z537
Z504
Z505
Z506
Z507
Z539
Z540
Z501
Z538
CN1
CN3
SD0
SD15
D0
D7
+5VA2
V5
L501
L502
L503
L504
L507
L508
+5VA
+5VA1
+5VB
+5VB1
+5VC
SCX
SDATA
STBV
STBCG
STBC
STBO
EMPTY
TO
MIX (2/3)
RECC
RECU
RECV
VM12
ADVSC
ADVSY
+5VC
CF703
CF704
CF705
IC711
IC712
IC702
IC703
IC851
IC701
IC706
IC713
IC714
Vin1 GND
SW1 Vout
Vin2 V+
SW2 Vin3
VR703
C GAIN
VR704
Pb GAIN
VR705
Pr GAIN
VR708
AVD. REF.
CN2
C1 OUT
C2 OUT
U1 OUT
U2 OUT
V1 OUT
V2 OUT
ADREF2
ADREF1
6
7
8
9
10
11

10
0

10
10
10
10


TO MIX (3/3)
IC533
IC534
DATM0
DATM15
DATA0
DATA15
SD0
SD15
CN1
CN3
Z542
Z543
Z544
Z545
V5
+SVA
+SVA1
+SVA2
+SVB
+SVB1
+SVC
SCK
SDATA
STBV
STBCG
STBC
STBD
EMPTY
TO MIX (2/3)
RECC
RECU
RECV
VM12
ADVSC
ADVSY
IC711
IC712
IC702
IC703
IC851
IC701
IC706
IC713
IC714
CF703
CF704
CF705
VR703
C GAIN
VR704
Pb GAIN
VR705
Pr GAIN
VR708
AVD. REF.
CN2
C1 OUT
C2 OUT
U1 OUT
U2 OUT
V1 OUT
V2 OUT
ADREF2
ADREF1
6
7
8
9
10
11

)
10
0

10
10
10
10

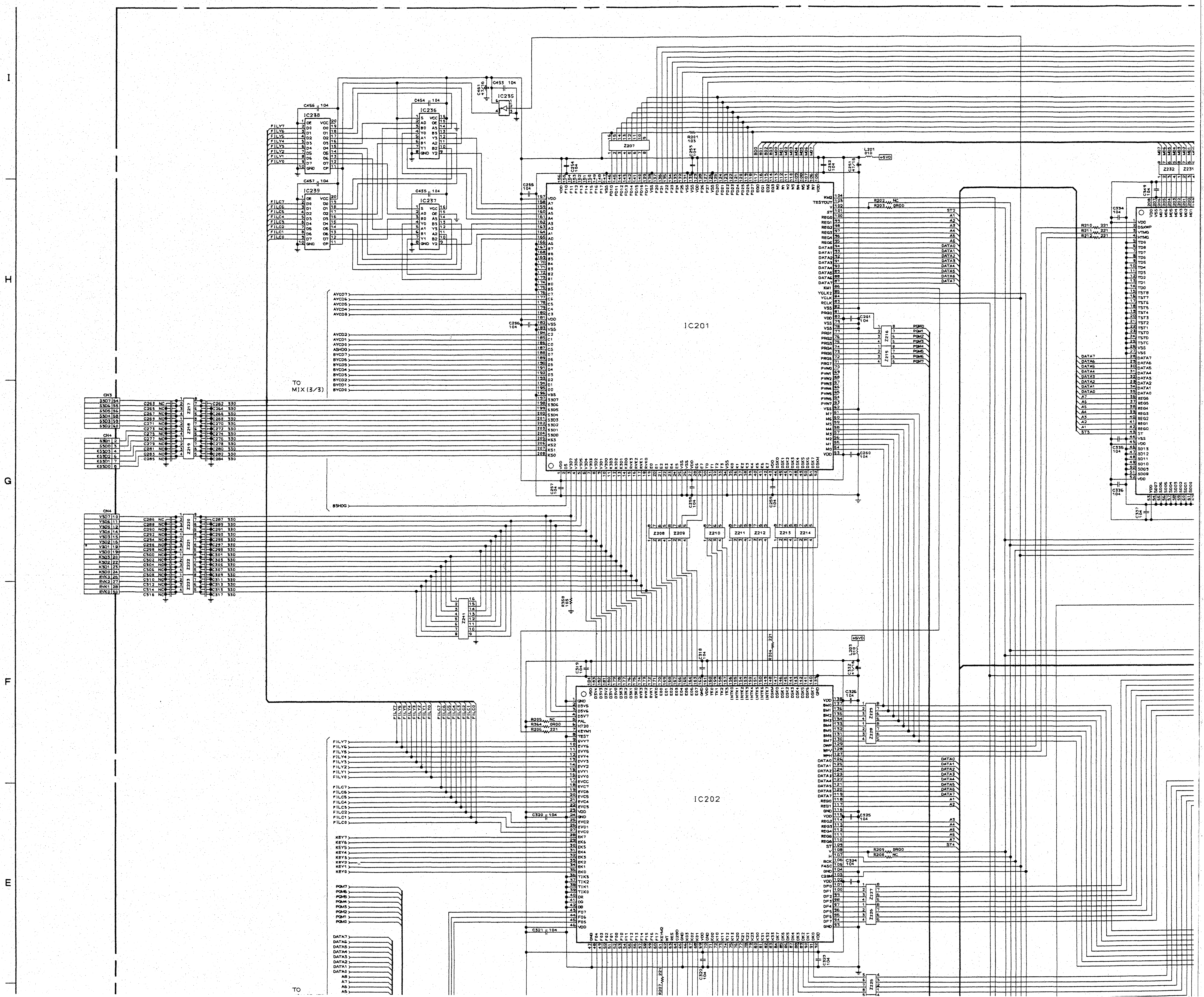
SCHEMATIC DIAGRAM OF MIXER BOA

MIXER BOARD (2/3)

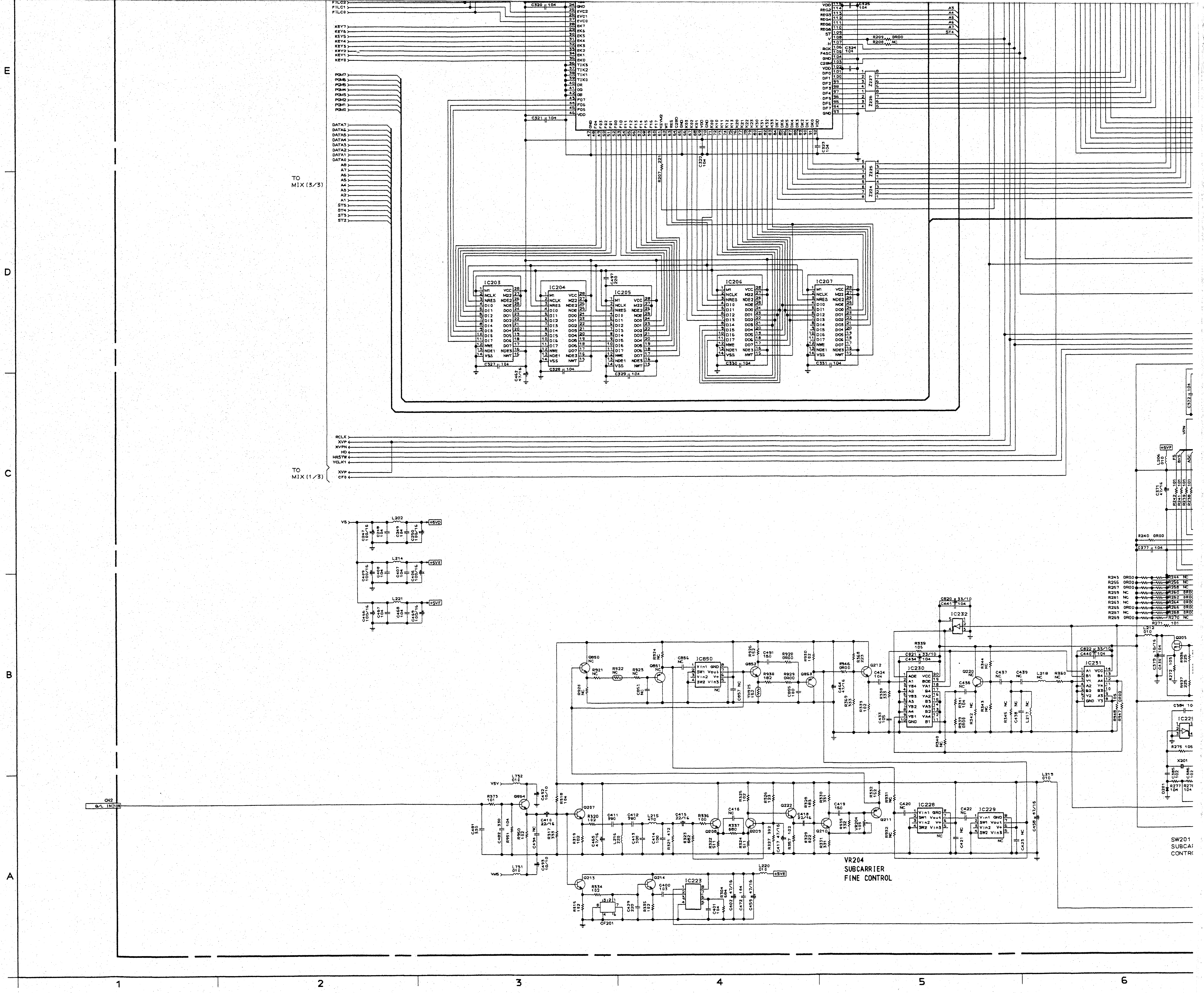
<Index>

MIXER BOARD(2/3)

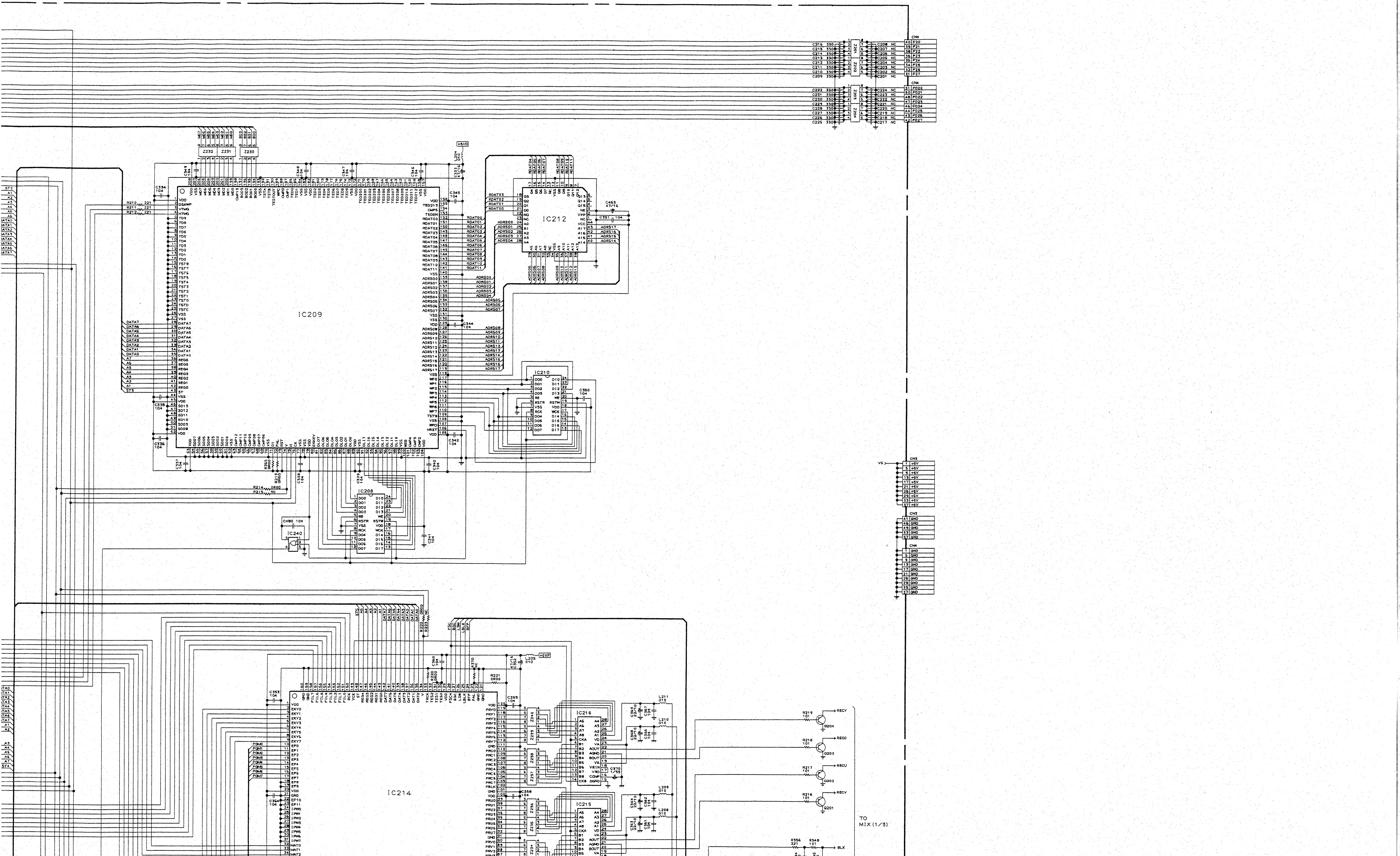
IC201	H4
IC202	E4
IC203	D3
IC204	D3
IC205	D4
IC206	D4
IC207	D5
IC208	G7
IC209	H7
IC210	G8
IC212	H8
IC214	E7
IC215	E8
IC216	E8
IC217	F10
IC218	C6
IC219	C7
IC220	C7
IC221	C8
IC222	B7
IC223	A4
IC224	B6
IC225	B6
IC226	B7
IC227	B7
IC228	A5
IC230	B5
IC231	B6
IC232	B5
IC233	D8
IC235	I3
IC236	I3
IC237	H3
IC238	I2
IC239	H2
IC240	F7
IC852	C8
Q201	E10
Q202	E10
Q203	E10
Q204	E10
Q205	B6
Q206	B7
Q207	A3
Q208	A4
Q209	A4
Q210	A5
Q211	A5
Q212	B5
Q213	A3
Q214	A4
Q220	B5
Q221	D9
Q222	A4
Q851	B4
Q852	B4
Q853	B4
D201	A6
D202	A6
D203	A7
D204	A7

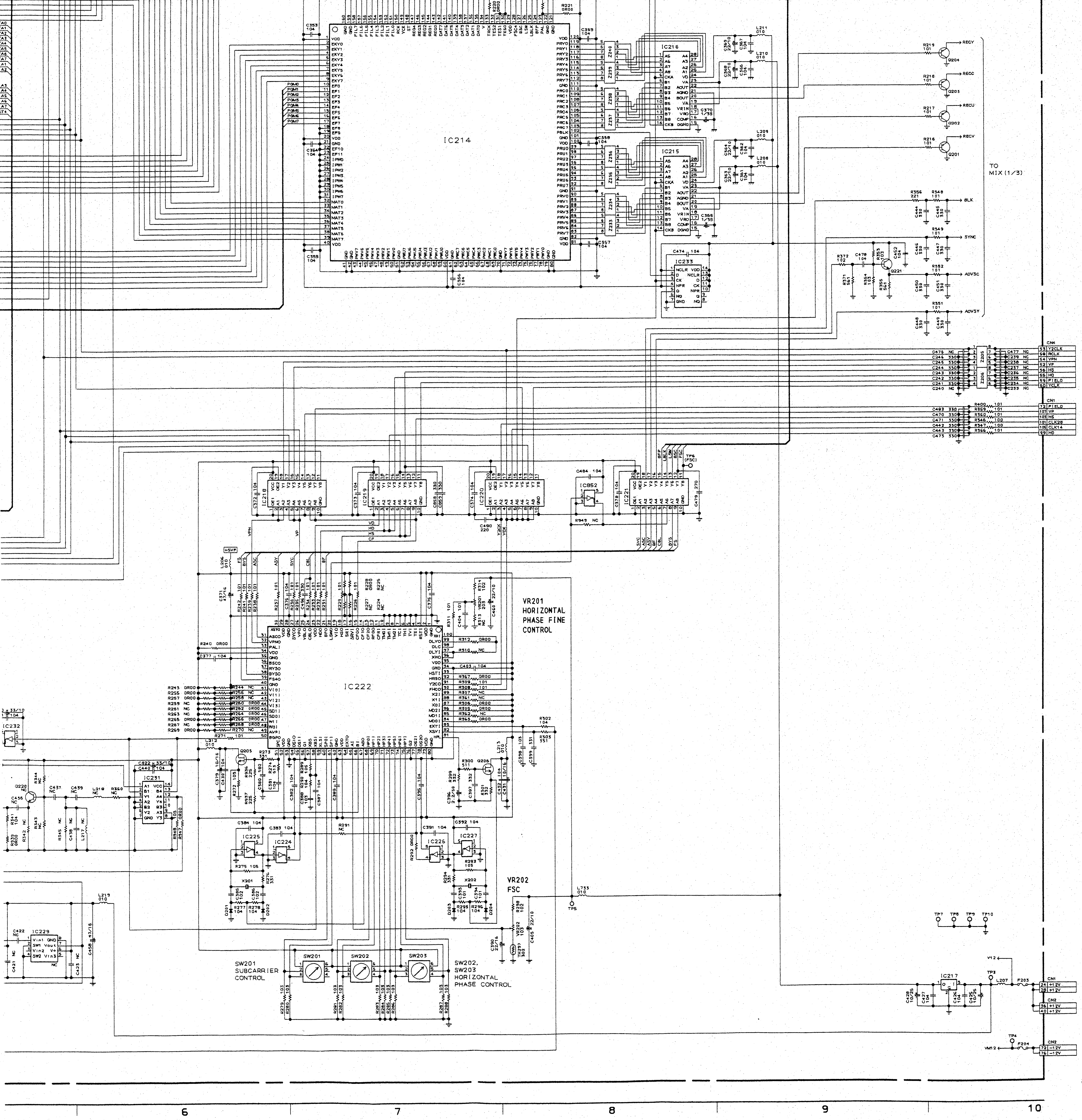

I
H
G
F
E
IC201
IC202
IC235
IC236
IC237
IC238
IC239
CN3
CN4
TO MIX(3/3)
TO
+5VD

Q220	B5
Q221	D9
Q222	A4
Q851	B4
Q852	B4
Q853	B4
D201	A6
D202	A6
D203	A7
D204	A7


E
D
C
B
A
1
2
3
4
5
6
TO MIX (3/3)
TO MIX (1/3)
IC203
IC204
IC205
IC206
IC207
Z224
Z225
Z226
Z227
IC232
IC230
IC251
IC850
IC228
IC229
IC223
L202
L214
L221
+5VD
+5VE
+5VF
CN2
VR204
SUBCARRIER
FINE CONTROL
SW201
SUBCA
CONTR
CF201
X201

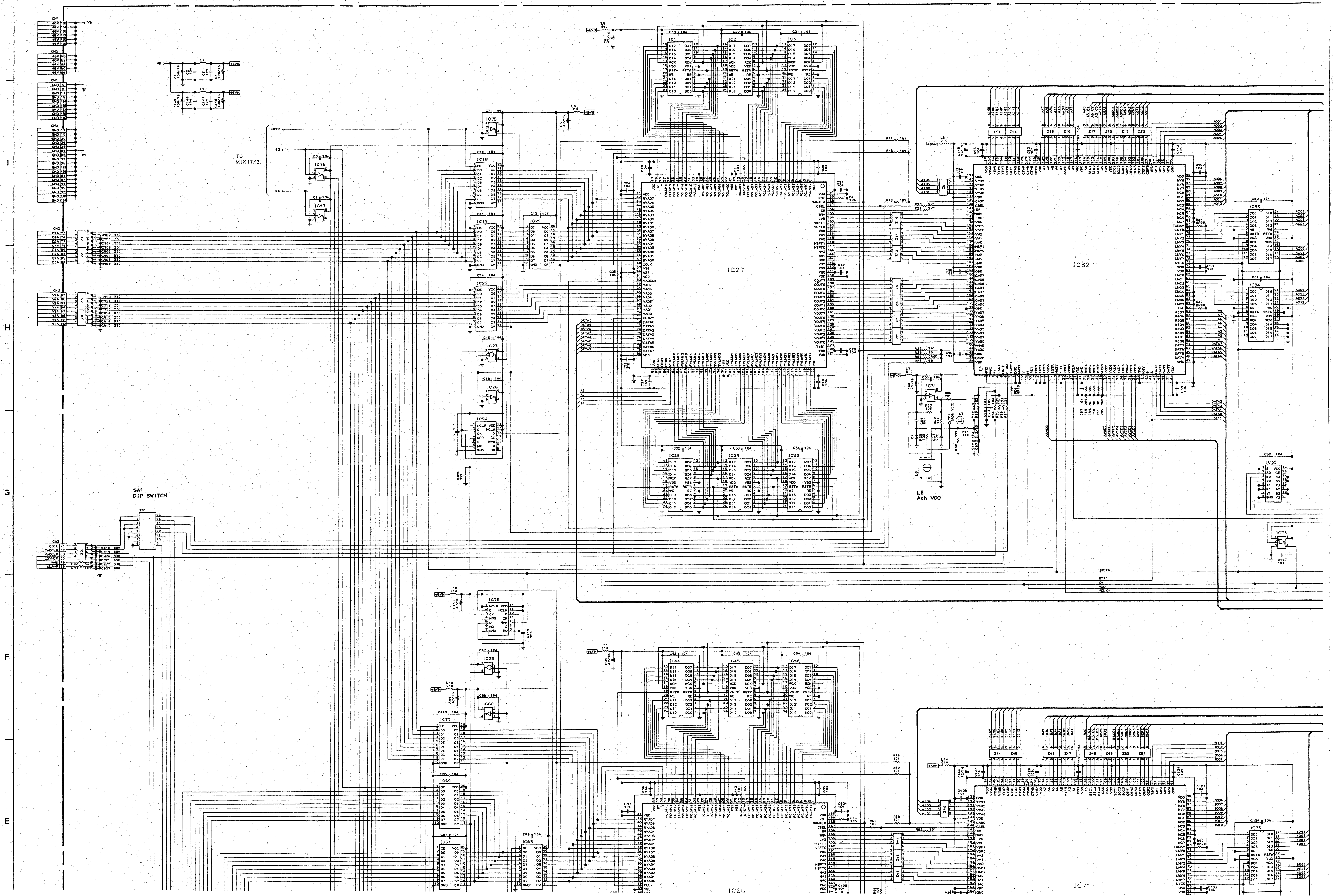
RAM OF MIXER BOARD (2/3)

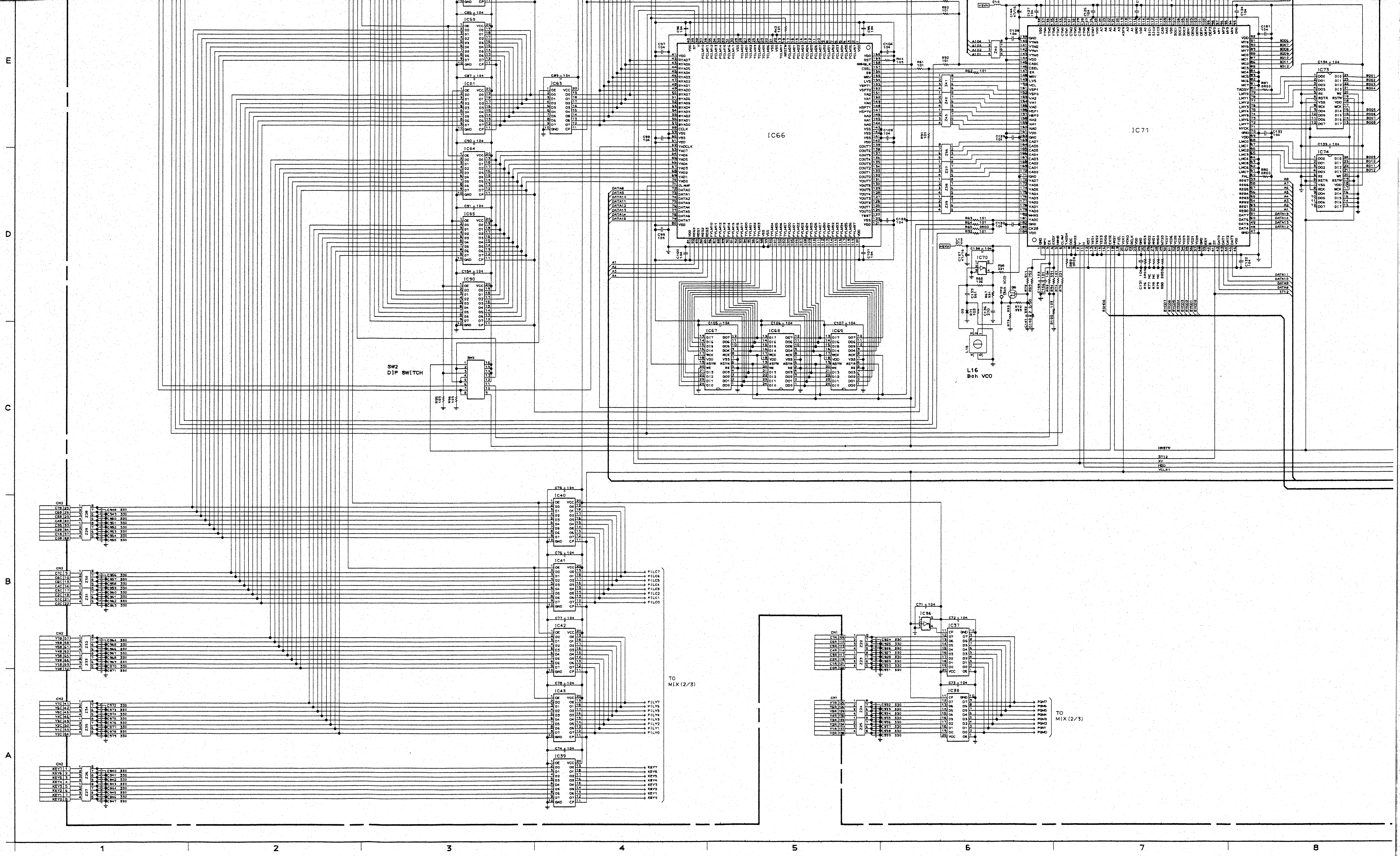

IC209
IC212
IC210
IC208
IC240
IC214
IC216
IC215
Z232
Z231
Z230
CN4
CN5
CN3
+5VD
+5VF
C463 47/16
VS
RECY
RECC
RECU
RECV
BLK
Q204
Q203
Q202
Q201
TO MIX (1/3)


IC214
IC216
IC215
IC233
IC218
IC219
IC220
IC221
IC852
IC222
IC251
IC232
IC229
IC225
IC224
IC226
IC227
IC217
Z205
Z206
TO MIX(1/3)
RECY
RECC
RECU
RECV
BLK
SYNC
ADVSC
ADVSY
Q204
Q203
Q202
Q201
Q221
CN4
53 Y2CLK
58 RCLK
54 VPN
52 VP
56 HS
55 HD
59 FIELD
60 YCLK
CN1
72 FIELD
107 VP
103 HS
101 CLK28
105 CLK14
99 HD
VR201
HORIZONTAL
PHASE FINE
CONTROL
VR202
FSC
SW201
SUBCARRIER
CONTROL
SW202
SW203
SW202,
SW203
HORIZONTAL
PHASE CONTROL
X201
X202
TP7
TP8
TP9
TP10
TP3
TP4
TP5
TP6
(FSC)
V12
VM12
L207
F203
F204
CN1
24 +12V
28 +12V
CN2
36 +12V
40 +12V
CN2
72 −12V
76 −12V
+5VP
6
7
8
9
10

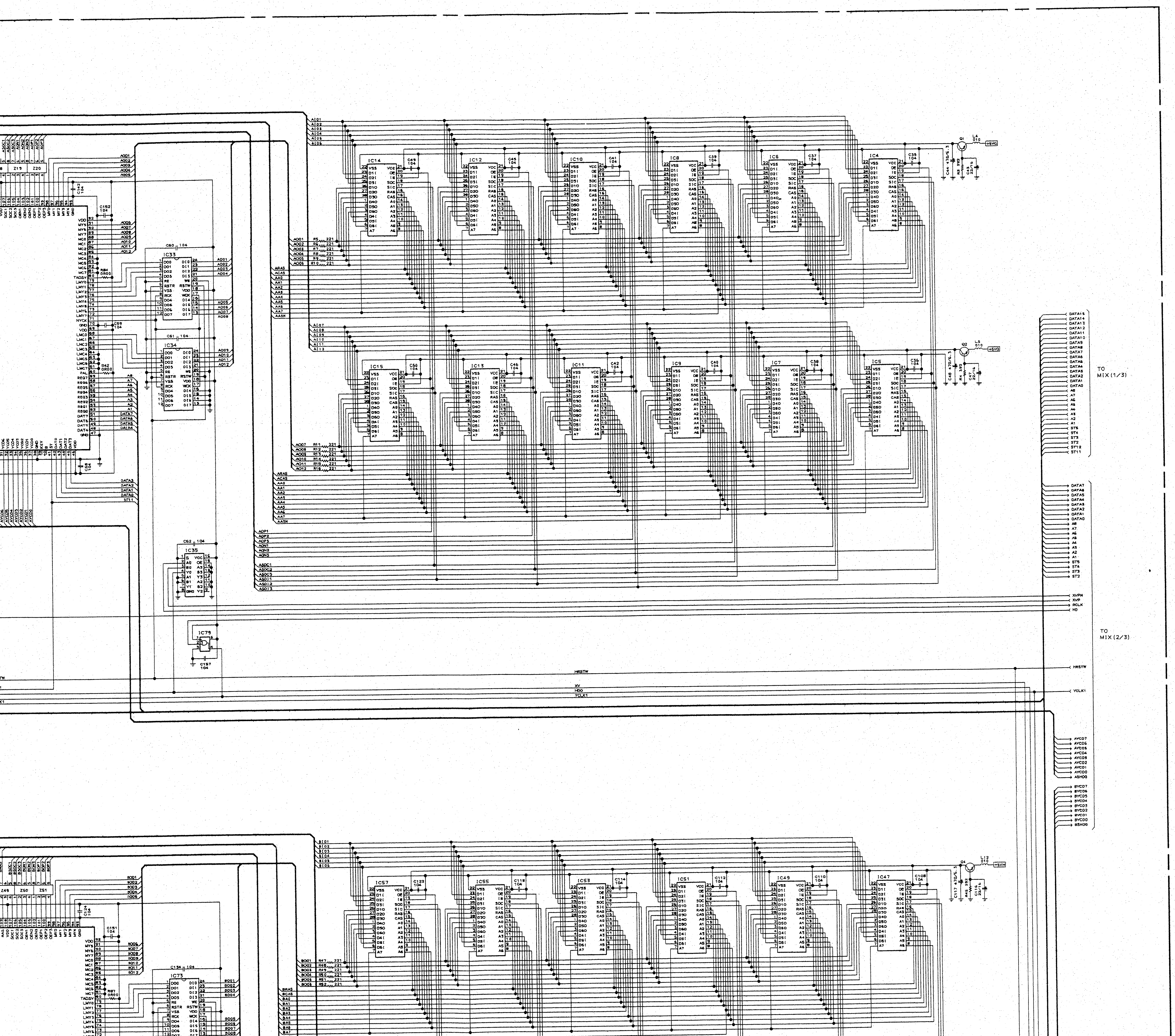
SCHEMATIC DIAGRAM OF MIXE

MIXER BOARD (3/3)


I
H
G
F
E
TO MIX(1/3)
EXTR
S2
S3
SW1 DIP SWITCH
IC27
IC32
IC66
IC71
L8 Ach VCO
IC1
IC2
IC3
IC16
IC17
IC18
IC19
IC21
IC22
IC23
IC24
IC26
IC28
IC29
IC30
IC31
IC33
IC34
IC35
IC44
IC45
IC46
IC59
IC60
IC61
IC63
IC75
IC76
IC77
+5VG
+5VH
CN1
CN2

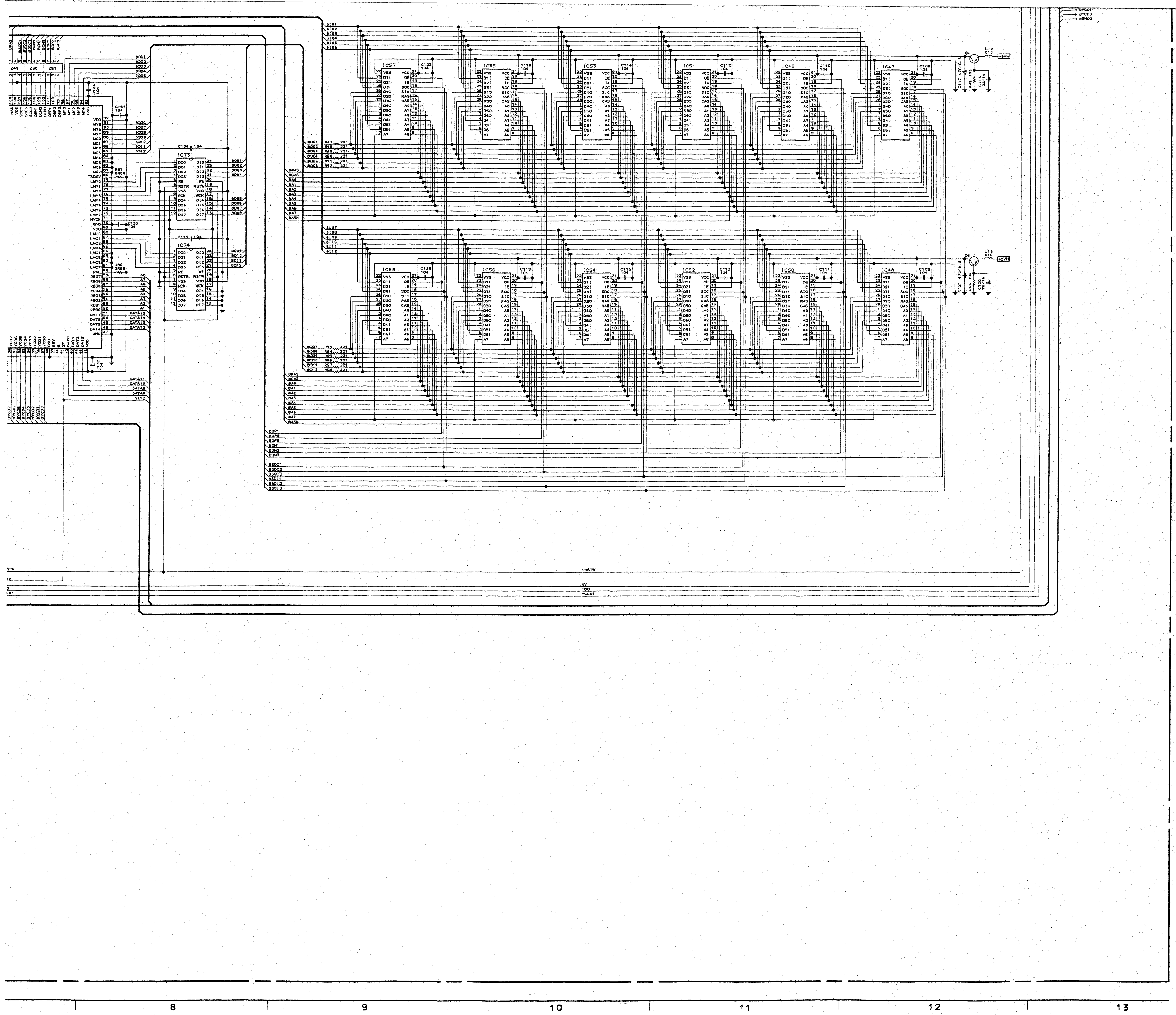

E
D
C
B
A
1
2
3
4
5
6
7
8
IC59
IC61
IC63
IC64
IC65
IC90
IC66
IC71
IC73
IC74
IC67
IC68
IC69
IC70
SW2
DIP SWITCH
L16
Bch VCO
IC40
IC41
IC42
IC43
IC39
IC36
IC37
IC38
CN1
CN2
FILC7
FILC6
FILC5
FILC4
FILC3
FILC2
FILC1
FILC0
FILY7
FILY6
FILY5
FILY4
FILY3
FILY2
FILY1
FILY0
KEY7
KEY6
KEY5
KEY4
KEY3
KEY2
KEY1
KEY0
PGM7
PGM6
PGM5
PGM4
PGM3
PGM2
PGM1
PGM0
TO
MIX (2/3)
TO
MIX (2/3)
HRSTH
ST12
XV
HDO
VCLK1
+5VH

C DIAGRAM OF MIXER BOARD (3/3)


TO
MIX (1/3)
TO
MIX (2/3)
IC14
IC12
IC10
IC8
IC6
IC4
IC15
IC13
IC11
IC9
IC7
IC5
IC33
IC34
IC35
IC79
IC57
IC55
IC53
IC51
IC49
IC47
IC73

<Index>
MIXER BOARD(3/3)

IC1	J5
IC2	J5
IC3	J5
IC4	I12
IC5	H12
IC6	I11
IC7	H11
IC8	I11
IC9	H11
IC10	I10
IC11	H10
IC12	I10
IC13	H10
IC14	I9
IC15	H9
IC16	I2
IC17	I2
IC18	I3
IC19	I3
IC21	I4
IC22	H3
IC23	H3
IC24	G3
IC25	F3
IC26	H3
IC27	H5
IC28	G5
IC29	G5
IC30	G5
IC31	H6
IC32	H7
IC33	I8
IC34	H8
IC35	G8
IC36	B6
IC37	B6
IC38	A6
IC39	A4
IC40	B4
IC41	B4
IC42	B4
IC43	A4
IC44	F5
IC45	F5
IC46	F5
IC47	E12
IC48	D12
IC49	E11
IC50	D11
IC51	E11
IC52	D11
IC53	E10
IC54	D10
IC55	E10
IC56	D10
IC57	E9
IC58	D9
IC59	E3
IC60	F3
IC61	E3
IC63	E4
IC64	D3
IC65	D3
IC66	E5
IC67	C5
IC68	C5
IC69	C5
IC70	D6
IC71	E7


IC57
IC55
IC53
IC51
IC49
IC47
IC58
IC56
IC54
IC52
IC50
IC48
IC73
IC74
8
9
10
11
12
13

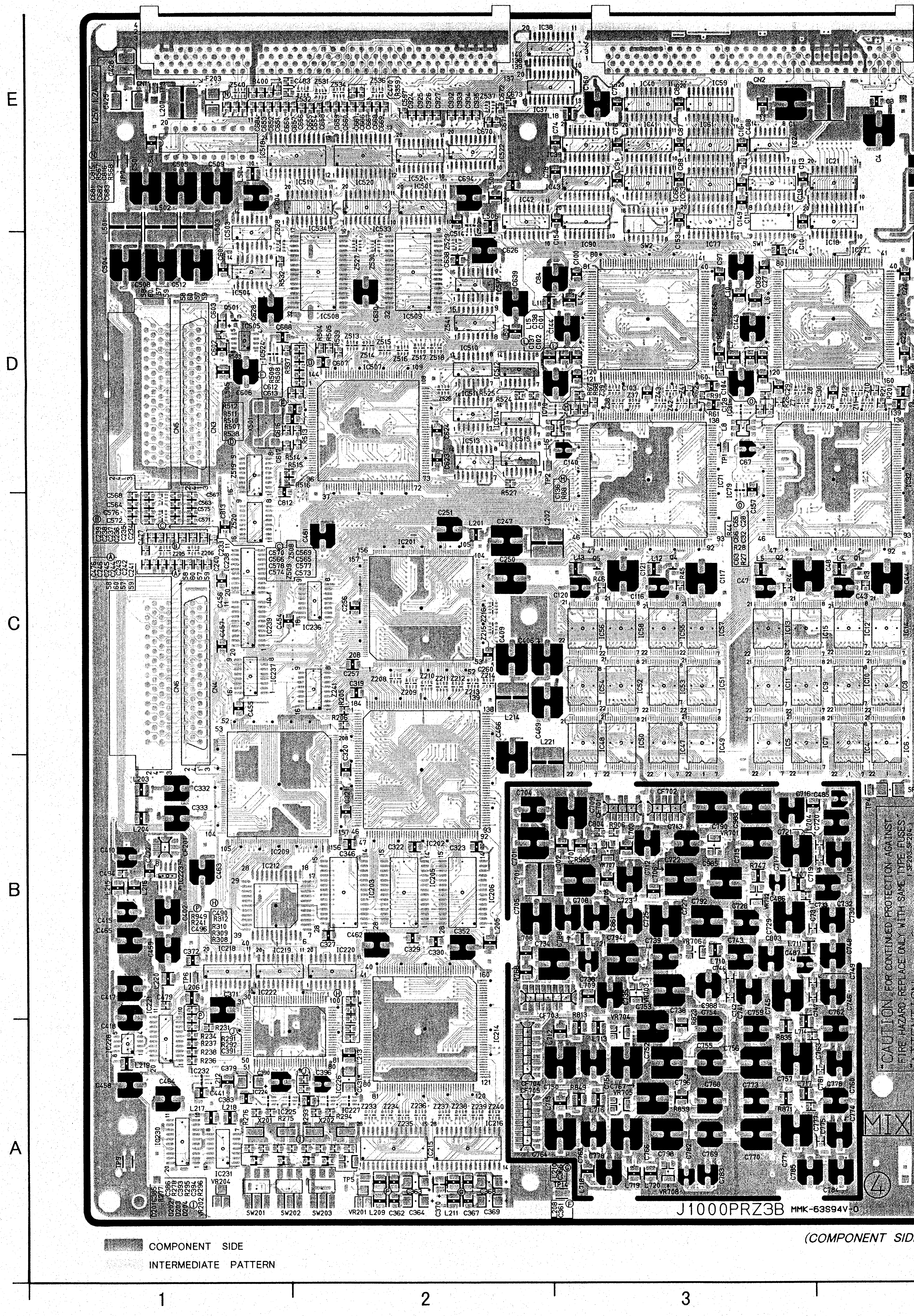
IC56	D10
IC57	E9
IC58	D9
IC59	E3
IC60	F3
IC61	E3
IC63	E4
IC64	D3
IC65	D3
IC66	E5
IC67	C5
IC68	C5
IC69	C5
IC70	D6
IC71	E7
IC73	E8
IC74	D8
IC75	I3
IC76	F3
IC77	F3
IC79	G8
IC90	D3
Q1	I12
Q2	H12
Q3	G6
Q4	E12
Q6	D6
D1	G6
D2	D6

CONDUCTOR VIEW OF MIX

<Index>
MIXER BOARD

IC1	D5
IC2	D5
IC3	D5
IC4	C4
IC5	C3
IC6	C4
IC7	C3
IC8	C4
IC9	C3
IC10	C4
IC11	C3
IC12	C4
IC13	C3
IC14	C4
IC15	C3
IC16	E5
IC17	E6
IC18	E4
IC19	E3
IC21	E4
IC22	E5
IC23	E5
IC24	E3
IC25	E5
IC26	E5
IC27	D4
IC28	D5
IC29	D5
IC30	D5
IC31	D3
IC32	D4
IC33	C5
IC34	C5
IC35	C5
IC36	E6
IC37	E2
IC38	E2
IC39	E3
IC40	E3
IC41	E3
IC42	E2
IC43	E3
IC44	D5
IC45	D6
IC46	D6
IC47	C3
IC48	C3
IC49	C3
IC50	C3
IC51	C3
IC52	C3
IC53	C3
IC54	C3
IC55	C3
IC56	C3
IC57	C3
IC58	C3
IC59	E3
IC60	D5
IC61	E3
IC63	E3
IC64	E6
IC65	E3
IC66	D3
IC67	D6
IC68	D6
IC69	D5
IC70	D2
IC71	D3
IC73	C5
IC74	C6
IC75	E5
IC76	E5
IC77	E3
IC79	D3
IC90	E3
C201	C2
IC202	B2
IC203	B2
IC204	B7
IC205	B2
IC206	B2
IC207	B6
IC208	B7
IC209	B1
IC210	B7
IC212	B1
IC214	A2
IC215	A2
IC216	A2
IC217	E7
IC218	B1
IC219	B1
IC220	B2
IC221	A1
IC222	B1
IC223	B1
IC224	A1
IC225	A1
IC226	A2
IC227	A2
IC228	A1
IC230	A1
IC231	A1
IC232	A1
IC233	A6
IC235	C7
IC236	C2
IC237	C1
IC238	C1
IC239	C1
IC240	B7

MIXER BOARD

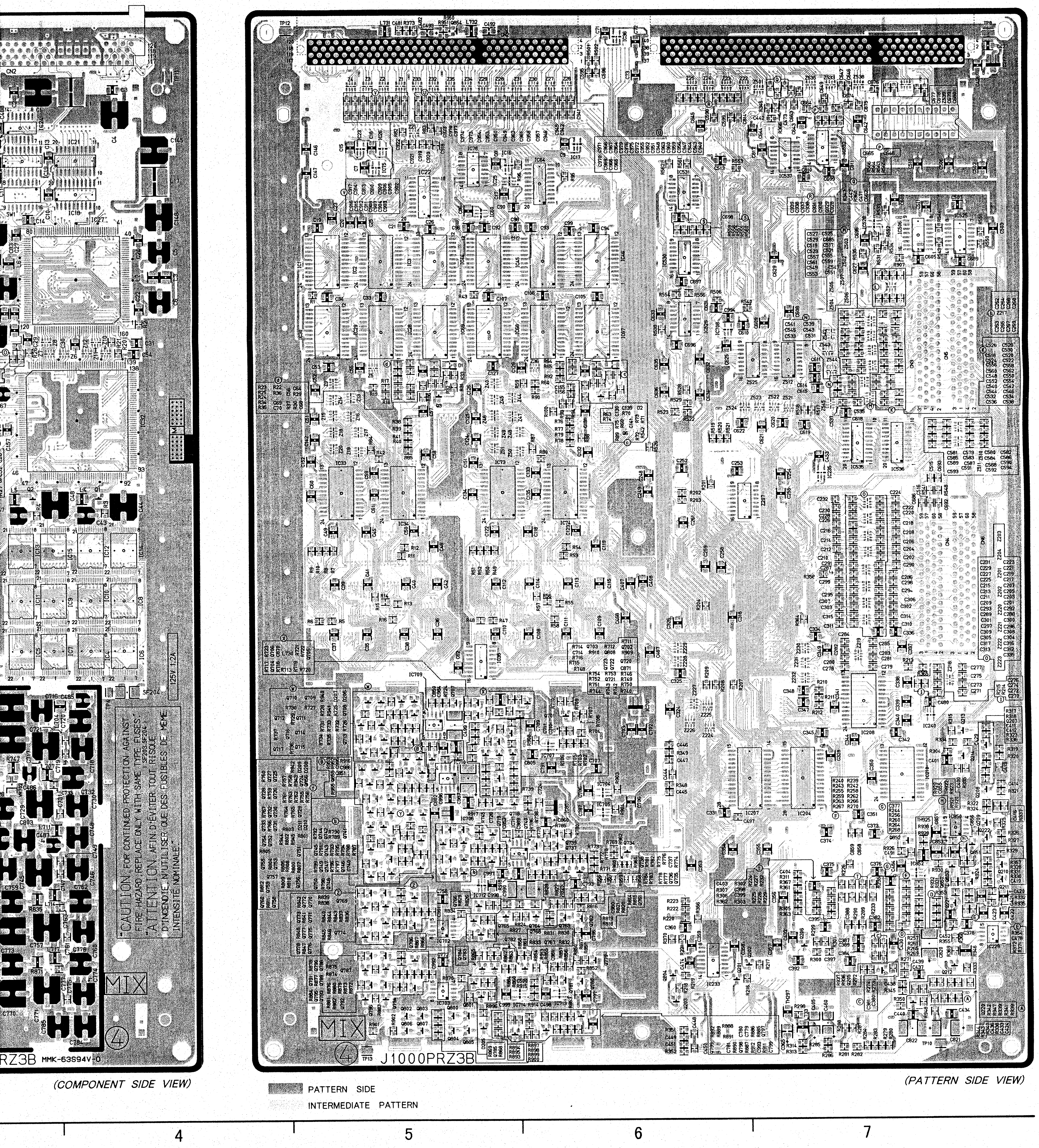

E
D
C
B
A
1
2
3
J1000PRZ3B
MMK-63S94V-0
MIX
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES.
CN5
CN3
CN6
CN4
CN2

COMPONENT SIDE
INTERMEDIATE PATTERN

(COMPONENT SID

IC501	E2	IC524	E1	IC710	B5	Q1	C4	Q222	B7	Q718
IC502	E2	IC525	D7	IC711	B5	Q2	C3	Q501	D1	Q719
IC503	D1	IC528	D7	IC712	B5	Q3	D5	Q701	B6	Q720
IC504	D1	IC529	D6	IC713	A6	Q4	C3	Q702	B5	Q721
IC505	D1	IC530	D6	IC714	A5	Q6	D6	Q703	B5	Q722
IC506	D7	IC531	E6	IC851	B6	Q201	A6	Q208	B7	Q723
IC507	D2	IC532	E7	IC852	B7	Q202	A6	Q704	B5	Q724
IC508	D2	IC533	E2			Q203	A6	Q705	B5	Q725
IC509	D2	IC534	E2			Q204	A6	Q706	B5	Q726
IC510	D2	IC535	C7			Q205	A7	Q707	B5	Q727
IC511	D2	IC536	C7			Q206	A7	Q708	B5	Q728
IC512	D2	IC537	E7			Q207	B7	Q709	B5	Q729
IC513	D2	IC701	B6			Q209	B7	Q710	B5	Q730
IC514	D2	IC702	A5			Q210	B7	Q711	B5	Q731
IC515	D2	IC703	A5			Q211	B7	Q712	B5	Q732
IC517	D2	IC704	B6			Q212	A7	Q713	B5	Q733
IC518	E1	IC705	B6			Q213	B7	Q714	B5	Q734
IC519	E2	IC706	B5			Q214	B7	Q715	B5	Q735
IC520	E2	IC707	B5			Q220	A7	Q716	B5	Q736
IC521	E2	IC708	D6			Q221	A7	Q717	B5	Q737

IEW OF MIXER BOARD

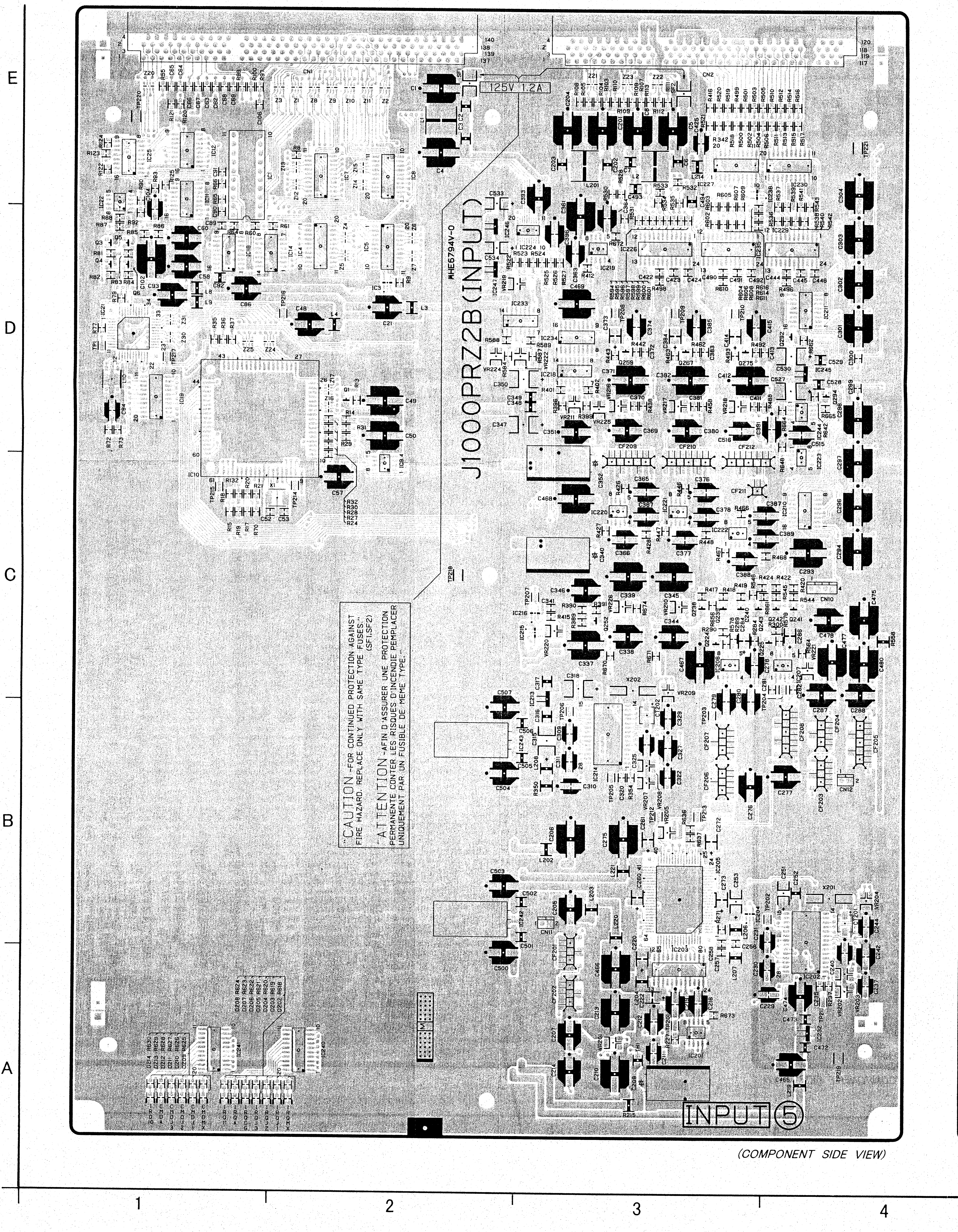

CAUTION FOR CONTINUED PROTECTION AGAINST
FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES.
SF203,SF204
ATTENTION AFIN D'ÉVITER TOUT RISQUE
D'INCENDIE, N'UTILISER QUE DES FUSIBLES DE MÊME
INTENSITÉ NOMINALE.
125V 1.2A
MIX
RZ3B MMK-63S94V-0
J1000PRZ3B
(COMPONENT SIDE VIEW)
(PATTERN SIDE VIEW)
PATTERN SIDE
INTERMEDIATE PATTERN
4
5
6
7

Q718	B5	Q738	B6	Q758	B5	Q778	C11	Q798	A6
Q719	B5	Q739	B6	Q759	B5	Q779	A6	Q799	A5
Q720	B5	Q740	B6	Q760	B5	Q780	A6	Q800	A5
Q721	B5	Q741	B5	Q761	A6	Q781	A6	Q801	A5
Q722	B5	Q742	B5	Q762	A6	Q782	A6	Q802	A5
Q723	B5	Q743	B5	Q763	A6	Q783	A5	Q803	A5
Q724	B5	Q744	B5	Q764	A6	Q784	A5	Q804	A5
Q725	B5	Q745	B5	Q765	A5	Q785	A5	Q805	A5
Q726	B5	Q746	B5	Q766	A5	Q786	A5	Q806	A5
Q727	B5	Q747	B5	Q767	A5	Q787	A5	Q807	A5
Q728	B5	Q748	B5	Q768	A5	Q788	A5	Q808	B5
Q729	B5	Q749	B5	Q769	A5	Q789	A5	Q851	B7
Q730	B5	Q750	B5	Q770	A5	Q790	A5	Q852	B7
Q731	B5	Q751	B5	Q771	A5	Q791	A5	Q853	B7
Q732	B5	Q752	B5	Q772	A5	C792	A5	Q855	B5
Q733	B5	Q753	B5	Q773	A5	Q793	A5	Q856	B5
Q734	B6	Q754	B5	C774	A5	Q794	A5		
Q735	B6	Q755	B5	Q775	C11	Q795	A5		
Q736	B6	Q756	B5	Q776	A5	Q796	A5		
Q737	B6	Q757	B5	Q777	A5	Q797	A6		

D1	D5
D2	D6
D201	A1
D202	A1
D203	A2
D204	A2
D205	A5
D206	B5
D207	B5
D208	B5
D209	B5
D210	B5
D211	B5

CONDUCTOR VIEW OF

INPUT BOARD



E
D
C
B
A
1
2
3
4
J1000PRZ2B(INPUT)
MHE6794V-0
"CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES." (SF1,SF2)
"ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTER LES RISQUES D'INCENDIE PEMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE."
125V 1.2A
INPUT ⑤
CN1
CN2
SF1
SF2
IC1
IC10
IC19
IC203
IC205
IC214

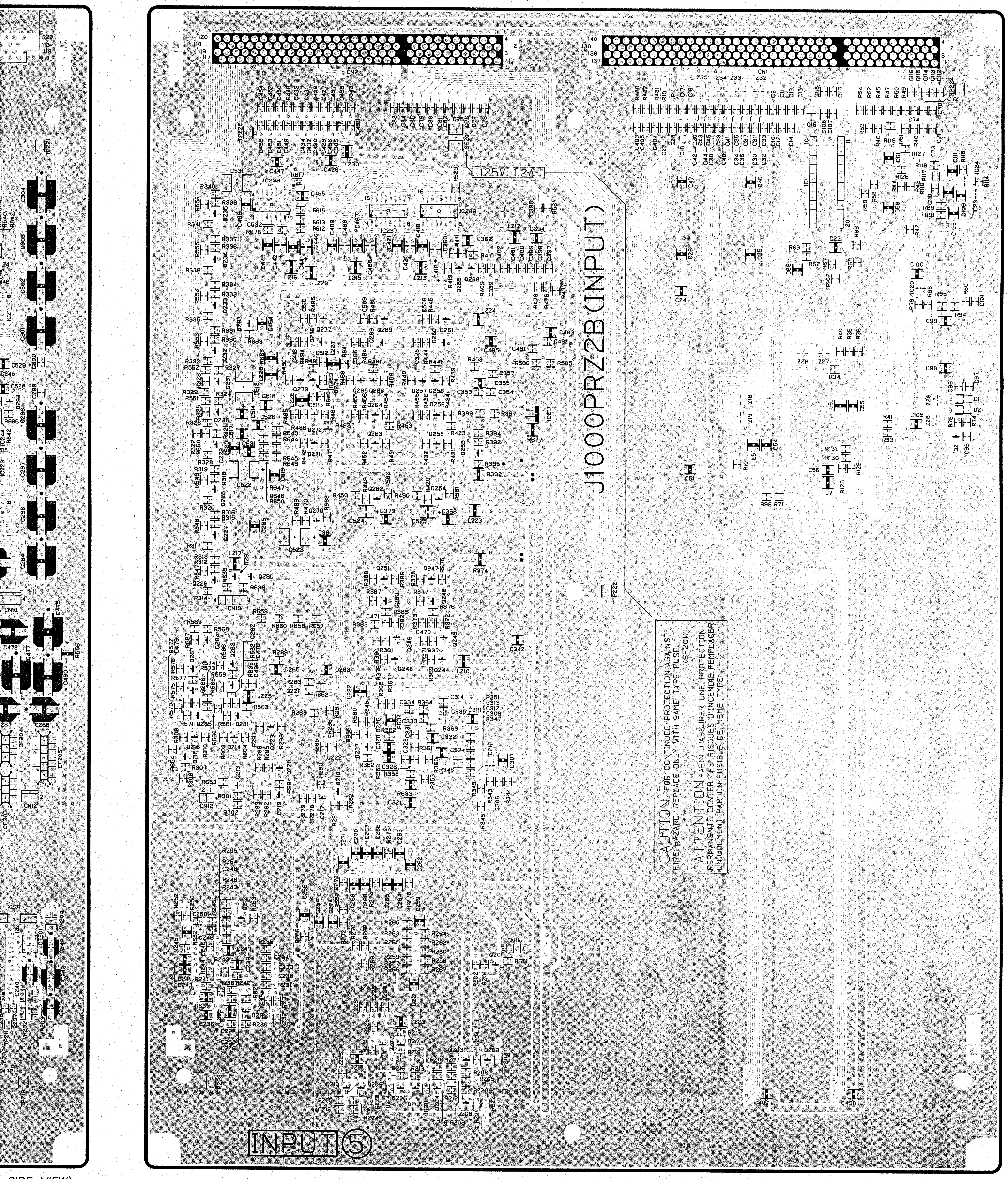
(COMPONENT SIDE VIEW)

<Index>
INPUT BOARD

IC1	H2
IC3	G3
IC4	H2
IC5	G2
IC7	G2
IC8	G2
IC9	G3
IC11	H6
IC12	H7
IC14	G2
IC18	H3
IC19	G5
IC20	F5
IC21	G6
IC22	G6
IC23	G6
IC24	G6
IC25	G7
IC26(IC10)	G4
IC201	E3
IC202	D3
IC203	E4
IC204	E4
IC205	E4
IC206	E6
IC207	E6
IC210	D1
IC211	B1
IC212	F7
IC213	F8
IC214	E7
IC215	F8
IC216	F8
IC217	A7
IC218	A4
IC219	A6
IC220	C4
IC221	C4
IC222	B4
IC223	B4
IC224	B3
IC226	C7
IC227	B8
IC229	B7
IC230	B8
IC232	E2
IC233	A5
IC234	A6
IC235	C7
IC236	C7
IC237	B7
IC239	A7
IC240	G7
IC241	F7
IC242	F3
IC243	F5
IC244	B4
IC245	B5
IC246	E2
IC247	C6

Q1	H3	Q208	F3	Q221	E6	Q234	B1	Q247	D8	Q260	C6	Q273	B5	Q289	A6
Q2	G6	Q209	E3	Q222	E6	Q235	A1	Q248	D7	Q261	C6	Q274	B5	Q290	D2
Q3	F6	Q210	E3	Q223	E6	Q236	E7	Q249	D7	Q262	C4	Q275	B6	Q291	D2
Q4	F6	Q211	D2	Q224	E6	Q237	E7	Q250	D7	Q263	C5	Q276	B6	Q292	B2
Q5	F6	Q212	D3	Q225	E6	Q238	C3	Q251	D8	Q264	C5	Q277	B6	Q293	B2
Q6	F6	Q213	E4	Q226	D1	Q239	C3	Q252	D8	Q265	C5	Q281	E5	Q294	B5
Q201	F1	Q214	D5	Q227	D1	Q240	B3	Q253	C5	Q266	C5	Q282	E5		
Q202	E2	Q215	D4	Q228	C1	Q241	B3	Q254	C4	Q267	C6	Q283	E5		
Q203	F2	Q216	D5	Q229	C1	Q242	B3	Q255	C5	Q268	B6	Q284	E6		
Q204	F2	Q217	E5	Q230	C1	Q243	C3	Q256	C5	Q269	C6	Q285	D5		
Q205	F3	Q218	E5	Q231	C1	Q244	D7	Q257	C5	Q270	B4	Q286	D5		
Q206	F3	Q219	E5	Q232	B1	Q245	D7	Q258	C5	Q271	B5	Q287	D5		
Q207	F3	Q220	E5	Q233	B1	Q246	D7	Q259	C6	Q272	B5	Q288	A6		
												Q289	A6		
												Q290	D2		

R VIEW OF INPUT BOARD


INPUT⑤
J1000PRZ2B(INPUT)
125V 1.2A
SF201
CN1
CN2
"CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSE." (SF201)
"ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTER LES RISQUES D'INCENDIE PEMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE."

SIDE VIEW)

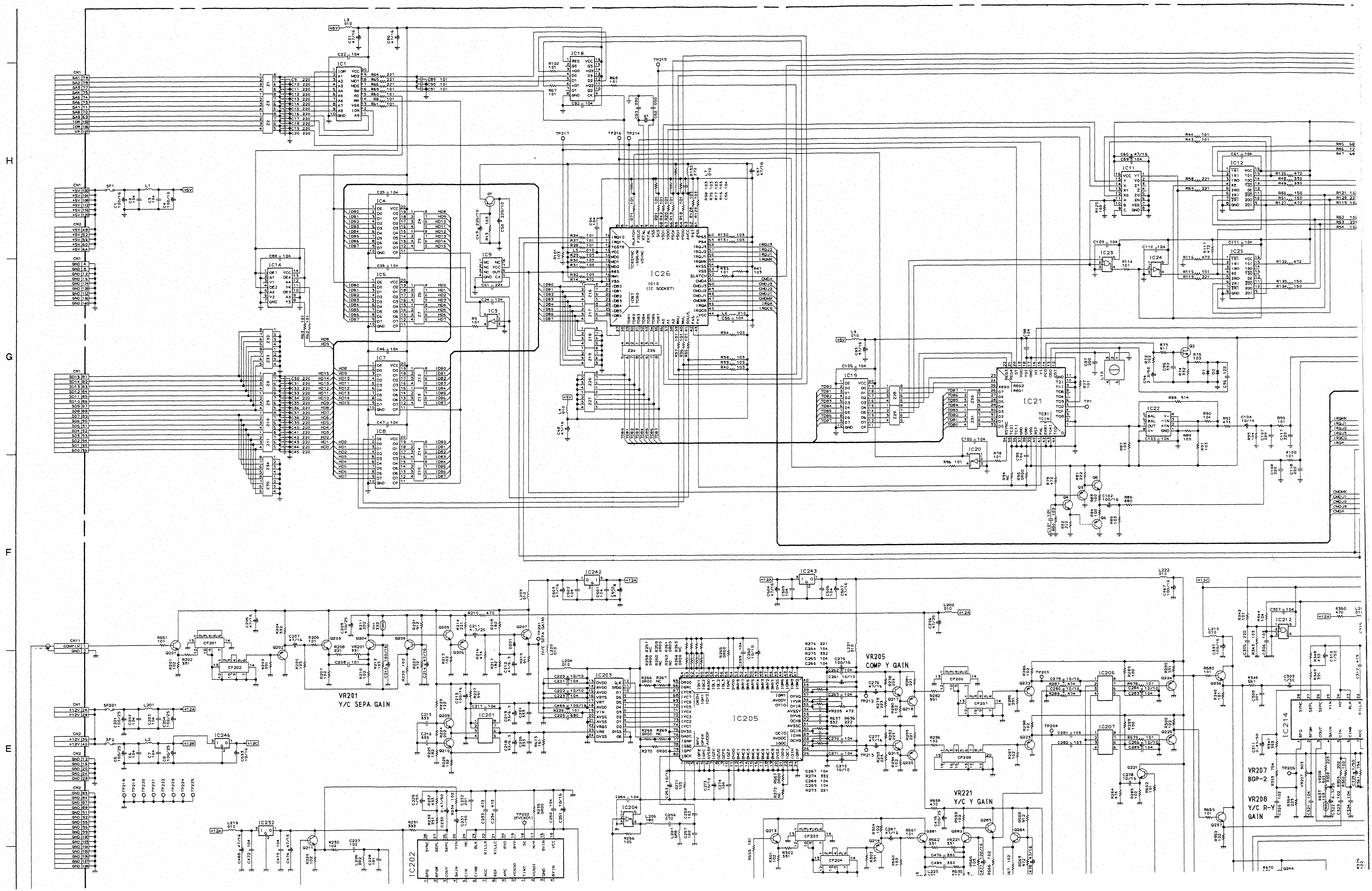
(PATTERN SIDE VIEW)

4
5
6
7

B5	Q289	A6	D1	G7
B5	Q290	D2	D2	G7
B6	Q291	D2	D201	F3
B6	Q292	B2	D202	G8
B6	Q293	B2	D203	G8
E5	Q294	B5	D204	G8
E5			D205	G8
E5			D206	G8
E6			D207	G8
D5			D208	G8
D5			D209	F8
D5			D210	F8
A6			D211	F8
A6			D212	F8
D2			D213	F8
			D214	F8

SCHEMATIC DIAGRAM OF INPUT

INPUT BOARD


H
G
F
E
CN1
CN2
CN11
IC1
IC3
IC4
IC5
IC7
IC8
IC9
IC11
IC12
IC14
IC18
IC19
IC20
IC21
IC22
IC23
IC24
IC25
IC26
IC10 (IC SOCKET)
IC201
IC202
IC203
IC205
IC206
IC207
IC212
IC214
IC232
IC242
IC243
IC246
CF201
CF202
CF203
CF204
CF205
CF206
CF207
CF208
VR201
Y/C SEPA GAIN
VR205
COMP Y GAIN
VR221
Y/C Y GAIN
VR207
BGP-2
VR208
Y/C R-Y
GAIN
COMPIN
+5V
+12V
+12A
+12B
+12C
TP1
TP201
TP202
TP203
TP204
TP205
TP212
TP213
TP214
TP215
TP216
TP217

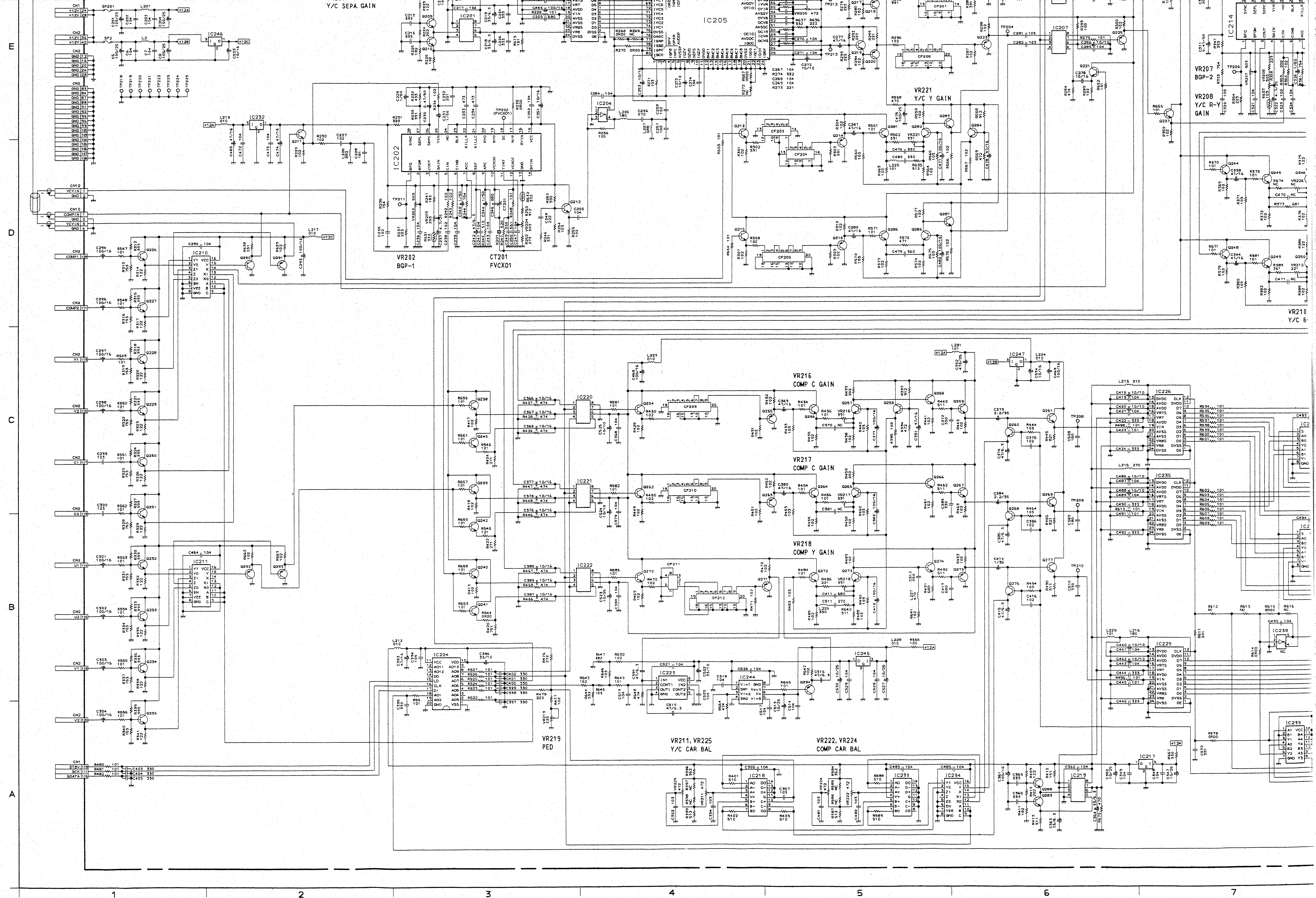
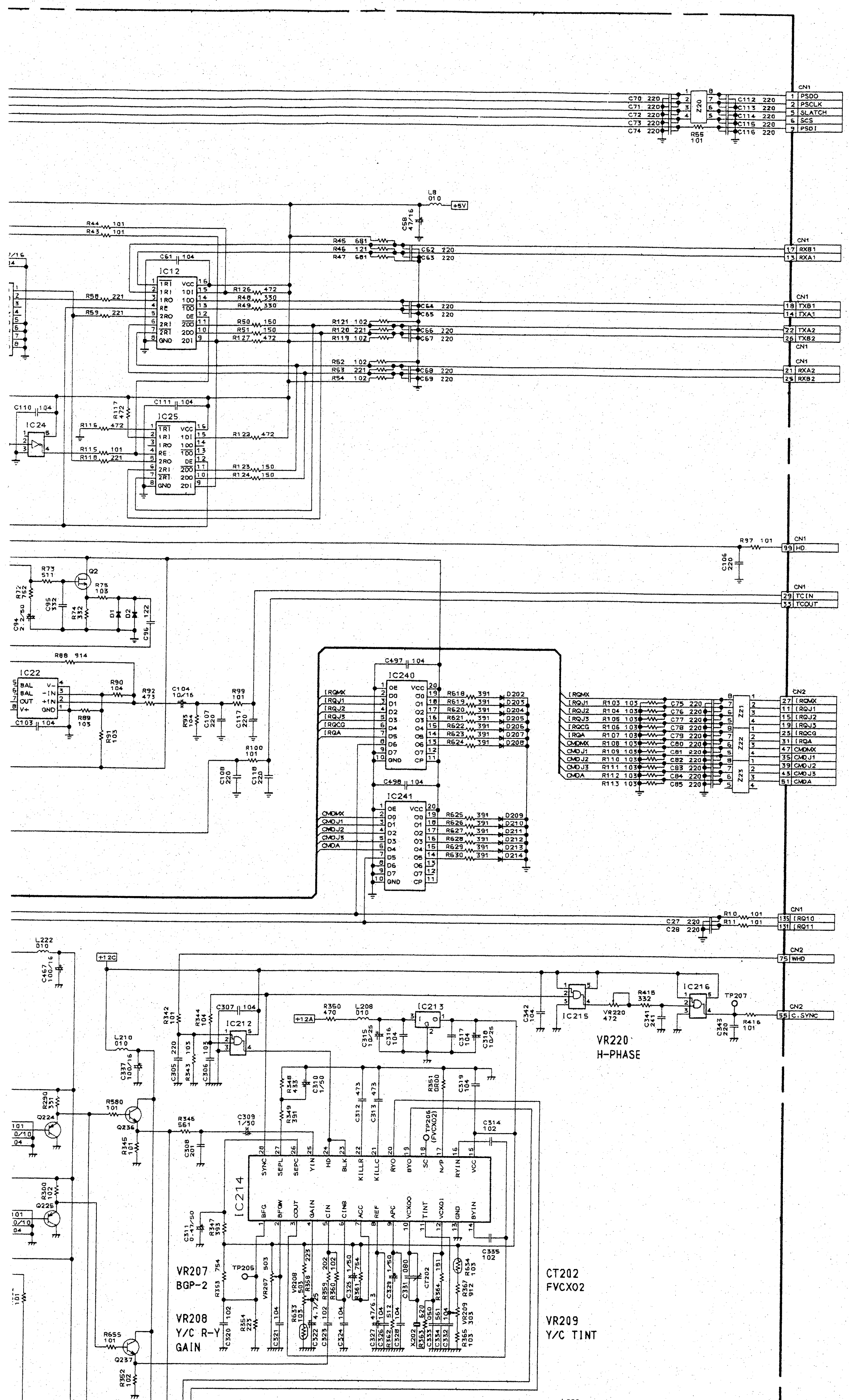

Y/C SEPA GAIN
IC205
IC201
IC207
IC214
IC246
IC232
IC202
IC204
VR207 BGP-2
VR208 Y/C R-Y GAIN
VR221 Y/C Y GAIN
VR202 BGP-1
CT201 FVCXO1
IC210
IC211
CN12 YCYIN
CN10 COMPIN YCYIN
CN2 COMP1
CN2 COMP2
CN2 Y1
CN2 Y2
CN2 C1
CN2 C2
CN2 U1
CN2 U2
CN2 V1
CN2 V2
CN1 STRV SCK SDATA
VR210 Y/C B-
IC247
IC220
IC221
IC222
VR216 COMP C GAIN
VR217 COMP C GAIN
VR218 COMP Y GAIN
IC226
IC235
IC229
IC238
IC224
IC223
IC244
IC245
VR219 PED
VR211, VR225 Y/C CAR BAL
VR222, VR224 COMP CAR BAL
IC218
IC233
IC234
IC219
IC217
IC239
CF203
CF204
CF205
CF207
CF208
CF209
CF210
CF211
CF212
1
2
3
4
5
6
7
A
B
C
D
E

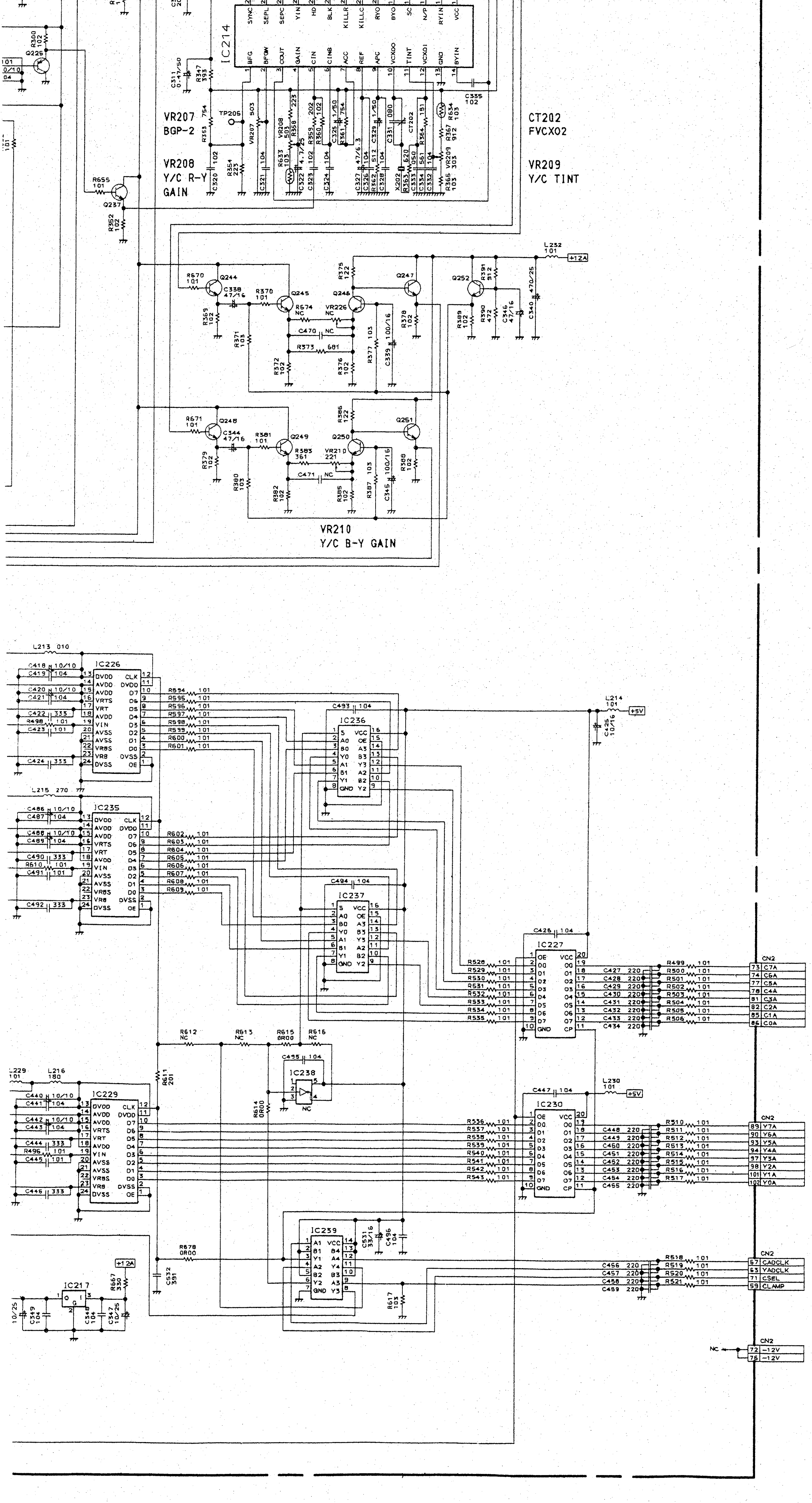
DIAGRAM OF INPUT BOARD


IC12
IC25
IC24
IC22
IC240
IC241
IC213
IC212
IC214
IC215
IC216
+5V
+12C
+12A
TP207
TP205
VR220
H-PHASE
CT202
FVCXO2
VR209
Y/C TINT
VR207
BGP-2
VR208
Y/C R-Y
GAIN
CN1
CN2
PSDO
PSCLK
SLATCH
SCS
PSDI
RXB1
RXA1
TXB1
TXA1
TXA2
TXB2
RXA2
RXB2
HD
TCIN
TCOUT
IRQMX
IRQJ1
IRQJ2
IRQJ3
IRQCG
IRQA
CMDMX
CMDJ1
CMDJ2
CMDJ3
CMDA
IRQ10
IRQ11
WHD
C.SYNC

<Index>

INPUT BOARD

IC1	H2
IC3	G3
IC4	H2
IC5	G2
IC7	G2
IC8	G2
IC9	G3
IC11	H6
IC12	H7
IC14	G2
IC18	H3
IC19	G5
IC20	F5
IC21	G6
IC22	G6
IC23	G6
IC24	G6
IC25	G7
IC26(IC10)	G4
IC201	E3
IC202	D3
IC203	E4
IC204	E4
IC205	E4
IC206	E6
IC207	E6
IC210	D1
IC211	B1
IC212	F7
IC213	F8
IC214	E7
IC215	F8
IC216	F8
IC217	A7
IC218	A4
IC219	A6
IC220	C4
IC221	C4
IC222	B4
IC223	B4
IC224	B3
IC226	C7
IC227	B8
IC229	B7
IC230	B8
IC232	E2
IC233	A5
IC234	A6
IC235	C7
IC236	C7
IC237	B7
IC239	A7
IC240	G7
IC241	F7
IC242	F3
IC243	F5
IC244	B4
IC245	B5
IC246	E2
IC247	C6
Q1	H3
Q2	G6
Q3	F6
Q4	F6
Q5	F6
Q6	F6
Q201	F1
Q202	E2
Q203	F2
Q204	F2
Q205	F3
Q206	F3
Q207	F3
Q208	F3
Q209	E3
Q210	E3
Q211	D2
Q212	D3
Q213	E4
Q214	D5
Q215	D4
Q216	D5
Q217	E5
Q218	E5
Q219	E5
Q220	E5
Q221	E6
Q222	E6
Q223	E6
Q224	E6
Q225	E6
Q226	D1
Q227	D1
Q228	C1
Q229	C1
Q230	C1
Q231	C1
Q232	B1
Q233	B1
Q234	B1
Q235	A1
Q236	E7
Q237	E7
Q238	C3
Q239	C3
Q240	B3
Q241	B3
Q242	B3
Q243	C3
Q244	D7
Q245	D7
Q246	D7
Q247	D8
Q248	D7
Q249	D7
Q250	D7
Q251	D8
Q252	D8
Q253	C5
Q254	C4
Q255	C5
Q291	D2
Q292	B2
Q293	B2
Q294	B5
D1	G7
D2	G7
D201	F3
D202	G8
D203	G8
D204	G8
D205	G8
D206	G8
D207	G8
D208	G8
D209	F8
D210	F8
D211	F8
D212	F8
D213	F8
D214	F8


IC214
VR207
BGP-2
VR208
Y/C R-Y
GAIN
CT202
FVCXO2
VR209
Y/C TINT
VR210
Y/C B-Y GAIN
+12A
IC226
IC236
IC235
IC237
IC227
IC238
IC229
IC230
IC259
IC217
+5V
CN2
C7A
C6A
C5A
C4A
C3A
C2A
C1A
C0A
Y7A
Y6A
Y5A
Y4A
Y3A
Y2A
Y1A
Y0A
CADCLK
YADCLK
CSEL
CLAMP
-12V
NC
7
8

IC237	B7
IC239	A7
IC240	G7
IC241	F7
IC242	F3
IC243	F5
IC244	B4
IC245	B5
IC246	E2
IC247	C6

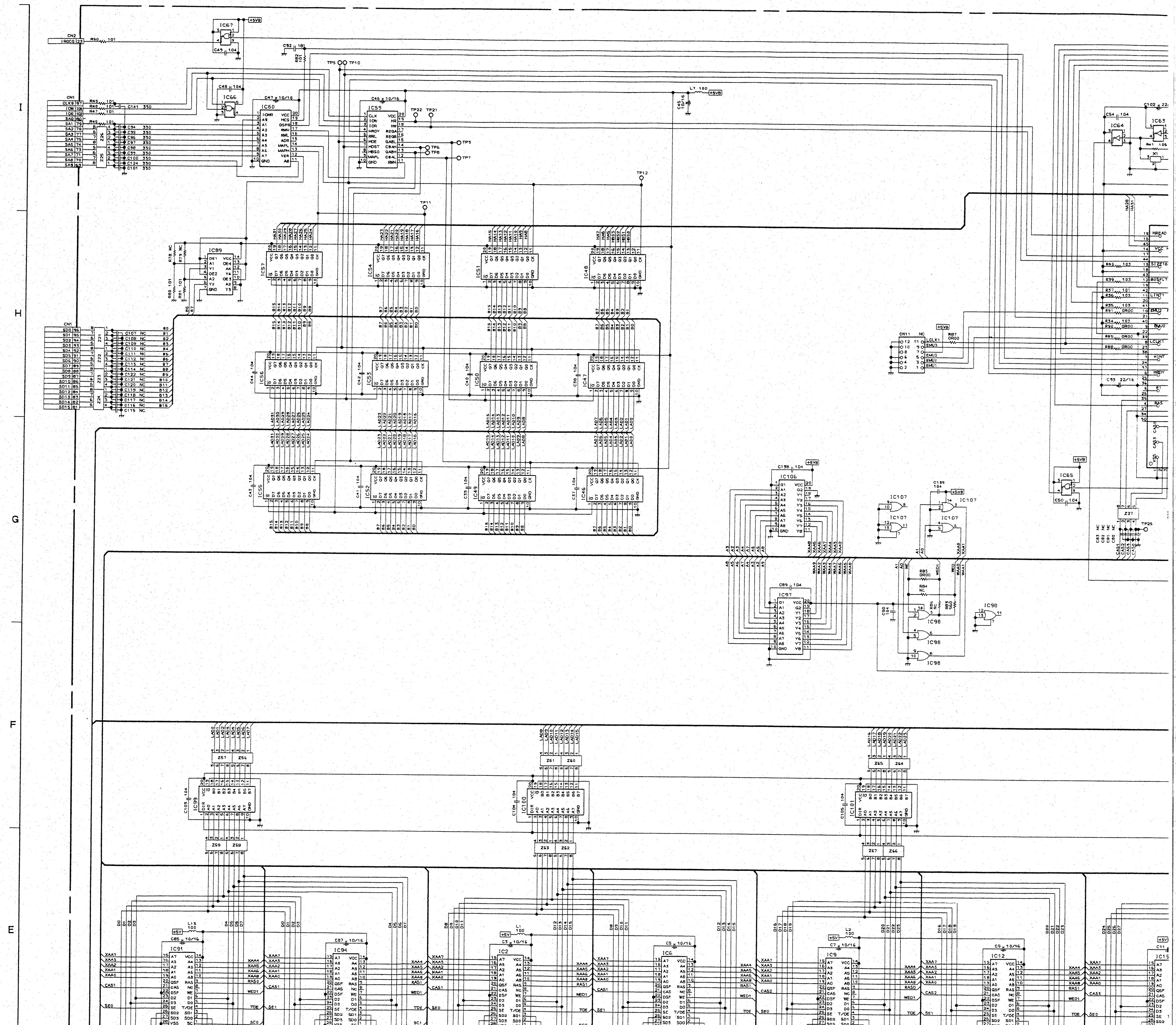
Q245	D7
Q246	D7
Q247	D8
Q248	D7
Q249	D7
Q250	D7
Q251	D8
Q252	D8
Q253	C5
Q254	C4
Q255	C5
Q256	C5
Q257	C5
Q258	C5
Q259	C6
Q260	C6
Q261	C6
Q262	C4
Q263	C5
Q264	C5
Q265	C5
Q266	C5
Q267	C6
Q268	B6
Q269	C6
Q270	B4
Q271	B5
Q272	B5
Q273	B5
Q274	B5
Q275	B6
Q276	B6
Q277	B6
Q281	E5
Q282	E5
Q283	E5
Q284	E6
Q285	D5
Q286	D5
Q287	D5
Q288	A6
Q289	A6
Q290	D2

SCHEMATIC DIAGRAM OF

CG BOARD

<Index>
CG BOARD

IC2	E3
IC3	D3
IC4	D3
IC6	E4
IC7	D4
IC8	D4
IC9	E4
IC10	D4
IC11	D4
IC12	E5
IC13	D5
IC14	D5
IC15	E6
IC16	D6
IC17	D6
IC18	E7
IC19	D7
IC20	D7
IC21	C2
IC22	C2
IC23	B2
IC24	A2
IC25	C4
IC26	C4
IC27	B4
IC28	A4
IC29	C6
IC30	C6
IC31	B6
IC32	A6
IC33	C7
IC34	C7
IC35	C9
IC36	C9
IC37	C10
IC38	C11
IC39	D9
IC40	D9
IC41	D10
IC42	D11
IC43	E10
IC44	E11
IC45	D11,ER11
IC46	G3
IC47	H3
IC48	H3
IC49	G3
IC50	H3
IC51	H3
IC52	G2
IC53	H2
IC54	H2
IC55	G2
IC56	H2
IC57	H2
IC59	I2
IC60	I2
IC61	G6
IC62(CN6)	H7
IC63	I6
IC64	I6
IC65	G6
IC66	I2
IC67	I1
IC68	I8
IC69	H8
IC70	H8
IC71	H8
IC72	I9
IC73	H9
IC74	H10
IC75	H10
IC76	H11
IC77	H11

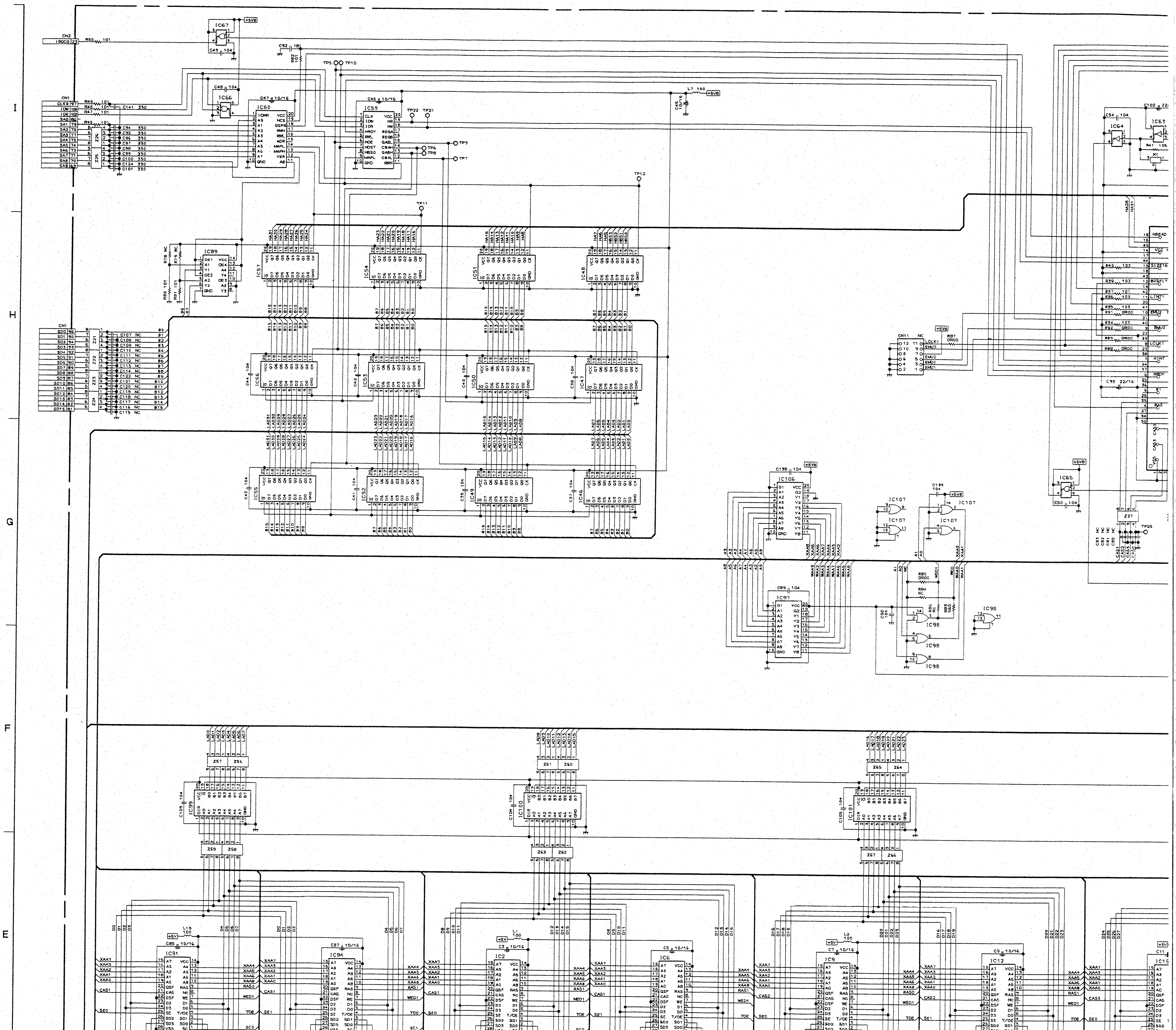

I
H
G
F
E
CN1
CN2
CN11
IC67
IC66
IC60
IC59
IC89
IC57
IC54
IC51
IC48
IC56
IC53
IC50
IC47
IC55
IC52
IC49
IC46
IC106
IC97
IC107
IC98
IC65
IC64
IC63
IC99
IC100
IC101
IC91
IC94
IC2
IC6
IC9
IC12
IC15
TP5
TP10
TP22
TP21
TP6
TP8
TP7
TP12
TP11
TP25
+5VB
+5V
L7 100
X1

SCHEMATIC DIAGRAM OF

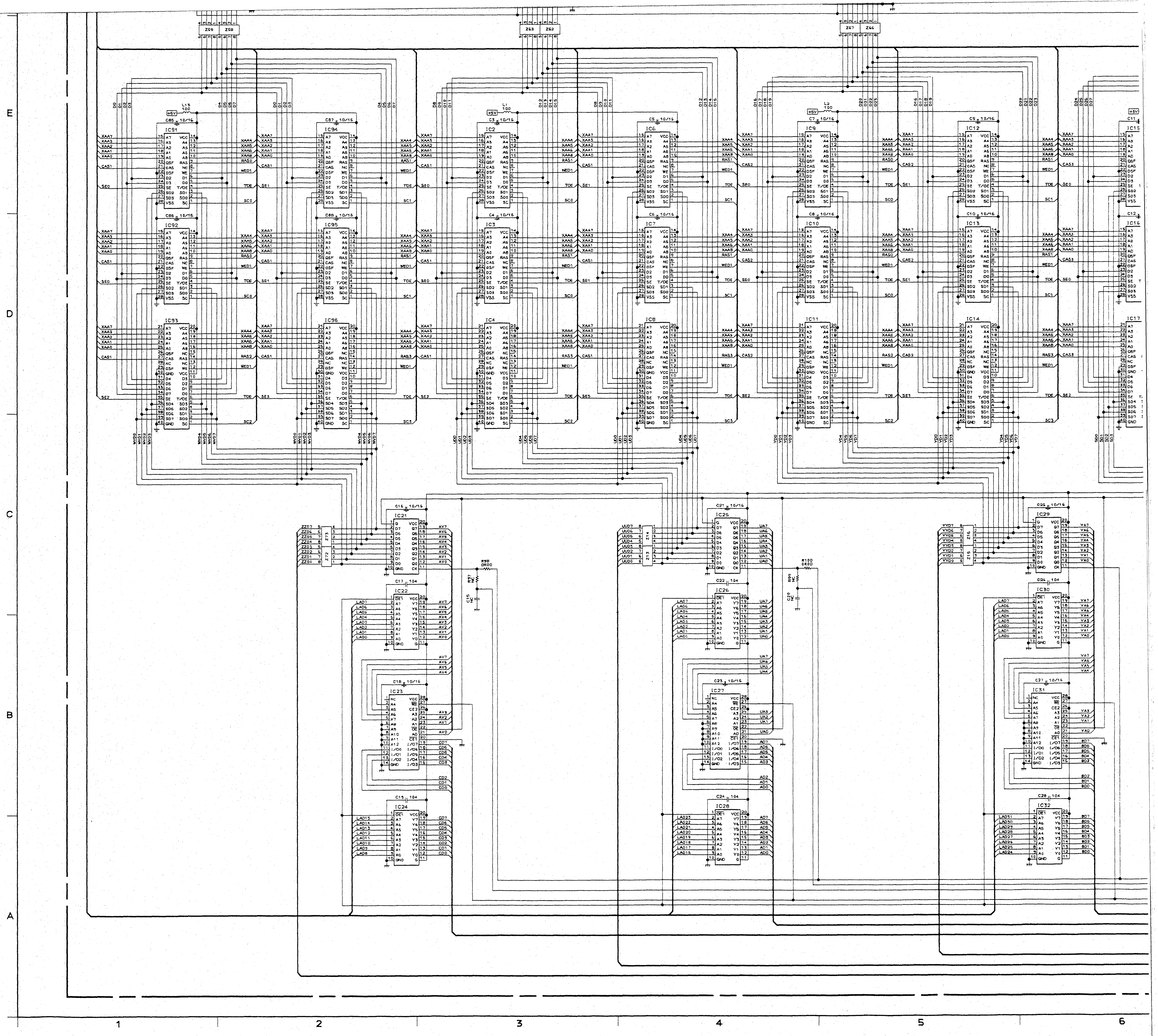
CG BOARD

<Index>
CG BOARD

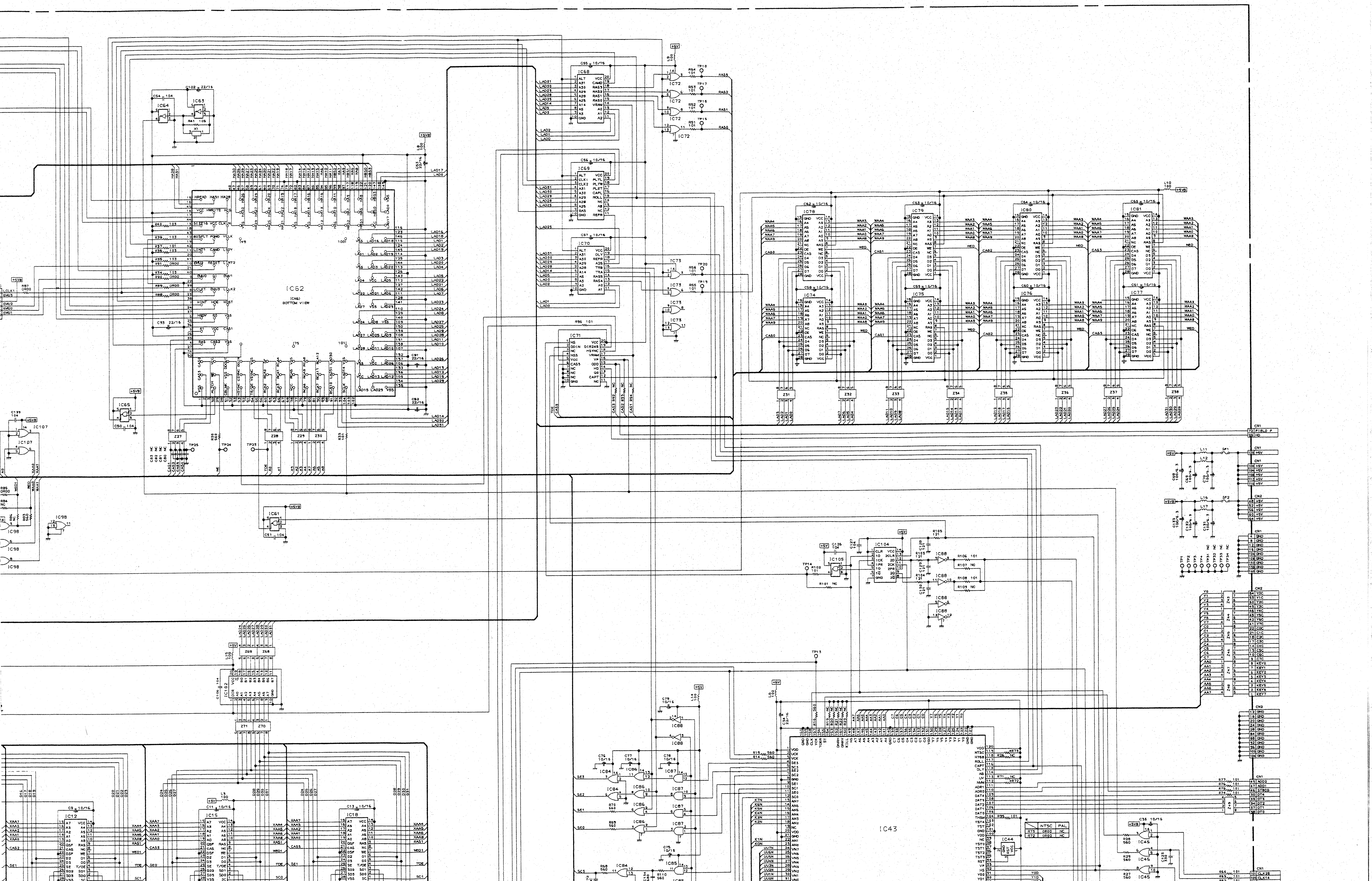
IC2	E3
IC3	D3
IC4	D3
IC6	E4
IC7	D4
IC8	D4
IC9	E4
IC10	D4
IC11	D4
IC12	E5
IC13	D5
IC14	D5
IC15	E6
IC16	D6
IC17	D6
IC18	E7
IC19	D7
IC20	D7
IC21	C2
IC22	C2
IC23	B2
IC24	A2
IC25	C4
IC26	C4
IC27	B4
IC28	A4
IC29	C6
IC30	C6
IC31	B6
IC32	A6
IC33	C7
IC34	C7
IC35	C9
IC36	C9
IC37	C10
IC38	C11
IC39	D9
IC40	D9
IC41	D10
IC42	D11
IC43	E10
IC44	E11
IC45	D11,ER11
IC46	G3
IC47	H3
IC48	H3
IC49	G3
IC50	H3
IC51	H3
IC52	G2
IC53	H2
IC54	H2
IC55	G2
IC56	H2
IC57	H2
IC59	I2
IC60	I2
IC61	G6
IC62(CN6)	H7
IC63	I6
IC64	I6
IC65	G6
IC66	I2
IC67	I1
IC68	I8
IC69	H8
IC70	H8
IC71	H8
IC72	I9
IC73	H9
IC74	H10
IC75	H10
IC76	H11
IC77	H11

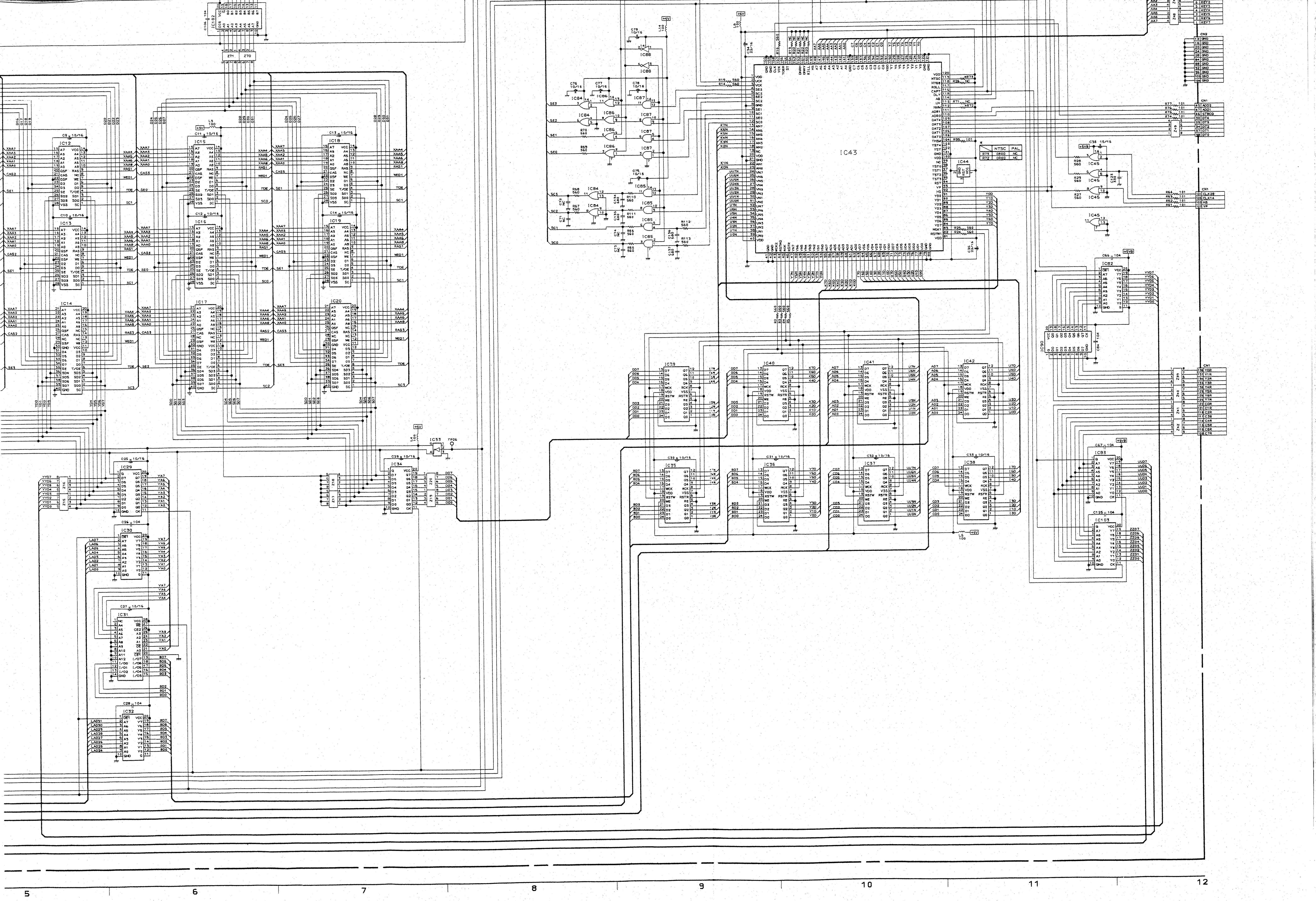

I
H
G
F
E
CN2
CN1
CN11
IC67
IC66
IC60
IC59
IC89
IC57
IC54
IC51
IC48
IC56
IC53
IC50
IC47
IC55
IC52
IC49
IC46
IC106
IC97
IC107
IC98
IC65
IC64
IC63
IC99
IC100
IC101
IC91
IC94
IC2
IC6
IC9
IC12
IC15
TP5
TP10
TP22
TP21
TP9
TP6
TP8
TP7
TP12
TP11
TP25
+5VB
+5V
L7 100
L13 100
L1 100
L2 100

IC63	I6
IC64	I6
IC65	G6
IC66	I2
IC67	I1
IC68	I8
IC69	H8
IC70	H8
IC71	H8
IC72	I9
IC73	H9
IC74	H10
IC75	H10
IC76	H11
IC77	H11
IC78	H10
IC79	H10
IC80	H11
IC81	H11
IC82	D11
IC83	C11
IC84	D8,E8
IC85	D9,E9
IC86	E9
IC87	E9
IC88	E9,E10
IC89	H1
IC90	D11
IC91	E1
IC92	D1
IC93	D1
IC94	E2
IC95	D2
IC96	D2
IC97	G4
IC98	F5,G5
IC99	F1
IC100	F3
IC101	F5
IC102	F6
IC103	C11
IC104	F10
IC105	F10
IC106	G4
IC107	G5


E
D
C
B
A
1
2
3
4
5
6
IC91
IC92
IC93
IC94
IC95
IC96
IC2
IC3
IC4
IC6
IC7
IC8
IC9
IC10
IC11
IC12
IC13
IC14
IC15
IC16
IC17
IC21
IC22
IC23
IC24
IC25
IC26
IC27
IC28
IC29
IC30
IC31
IC32

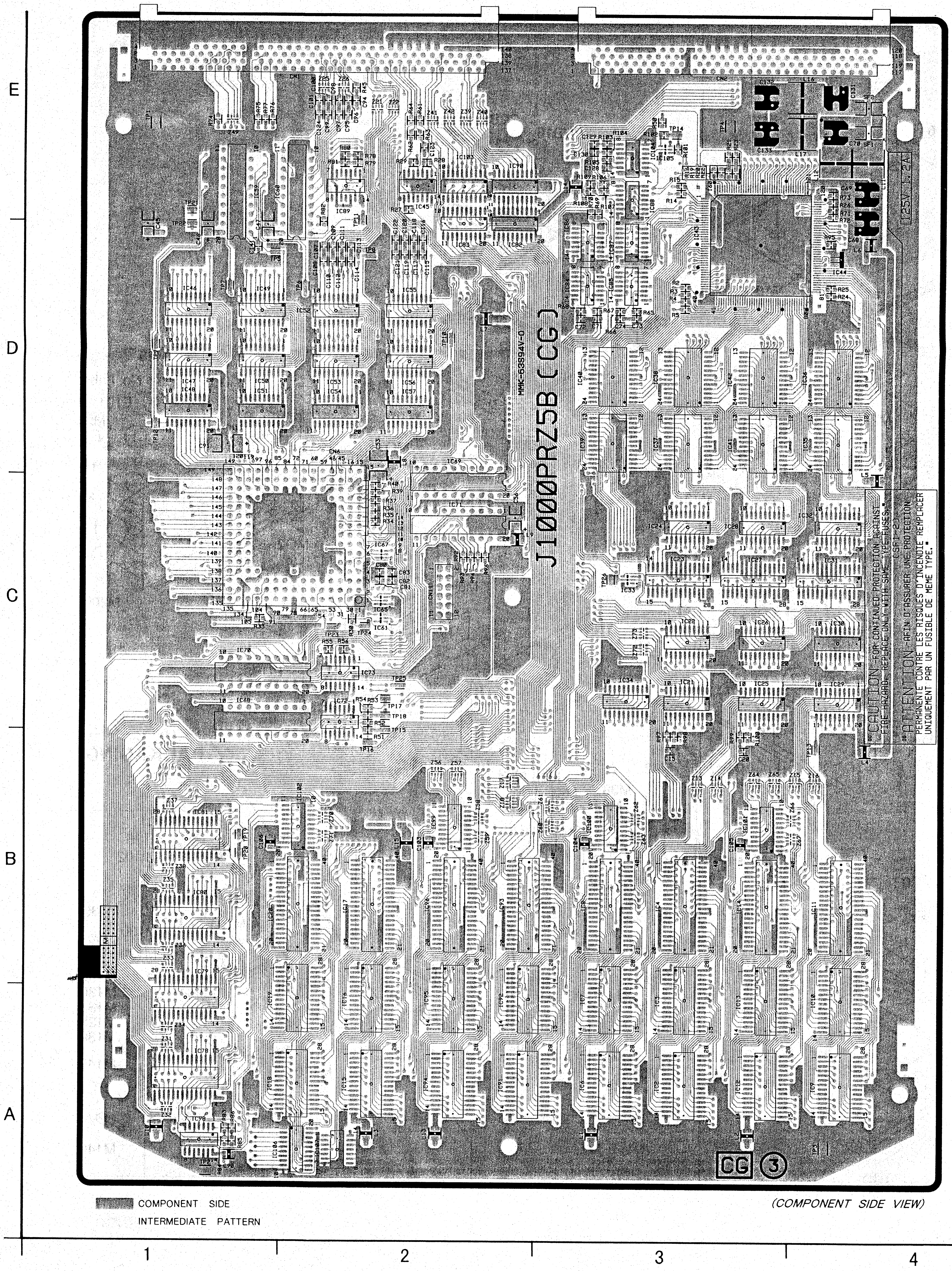
ATIC DIAGRAM OF CG BOARD


IC62
(CN6)
BOTTOM VIEW
IC63
IC64
IC65
IC61
IC68
IC69
IC70
IC71
IC72
IC73
IC74
IC75
IC76
IC77
IC78
IC79
IC80
IC81
Z31
Z32
Z33
Z34
Z35
Z36
Z37
Z38
Z27
Z28
Z29
Z30
IC162
Z69
Z68
Z71
Z70
IC12
IC15
IC18
IC104
IC105
IC88
IC43
IC44
IC45
IC84
IC86
IC87
IC85
IC98
IC107
CN1
CN2
+5V
+5VB
NTSC
PAL


IC102
IC12
IC13
IC14
IC15
IC16
IC17
IC18
IC19
IC20
IC29
IC30
IC31
IC32
IC33
TP26
IC34
IC35
IC36
IC37
IC38
IC39
IC40
IC41
IC42
IC43
IC44
IC45
IC82
IC83
IC84
IC85
IC86
IC87
IC88
IC90
IC103
NTSC
PAL
R73
R72
0R60
NC
CN1
CN2
+5V
+5VB
5
6
7
8
9
10
11
12

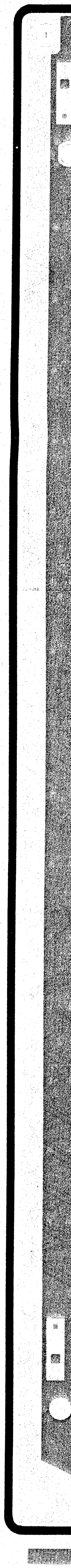
CONDUCTOR VIEW OF CG

CG BOARD

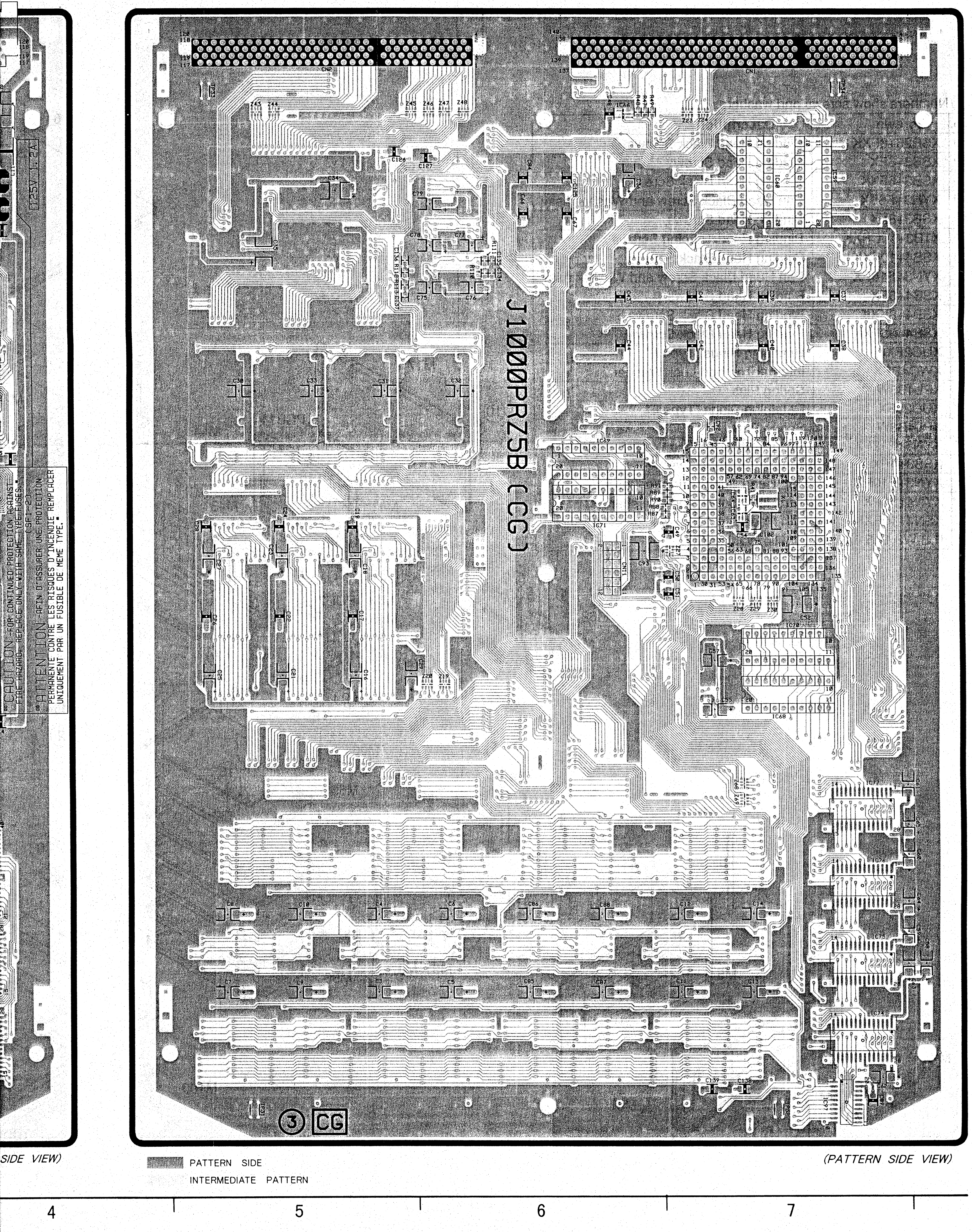


E
D
C
B
A
1
2
3
4
J1000PRZ5B (CG)
MMK-63894V-0
CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES.
(SF1-2)
ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE.
125V 1.2A
CG 3
CN1
CN2
COMPONENT SIDE
INTERMEDIATE PATTERN

(COMPONENT SIDE VIEW)



VIEW OF CG BOARD


CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES. (SF1-2)
ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE.
125V 1.2A
J1000PRZ5B (CG)
③ CG
CN1
CN2
IC60
IC68
IC71
IC78
SIDE VIEW)
PATTERN SIDE
INTERMEDIATE PATTERN
(PATTERN SIDE VIEW)
4
5
6
7

<Index>

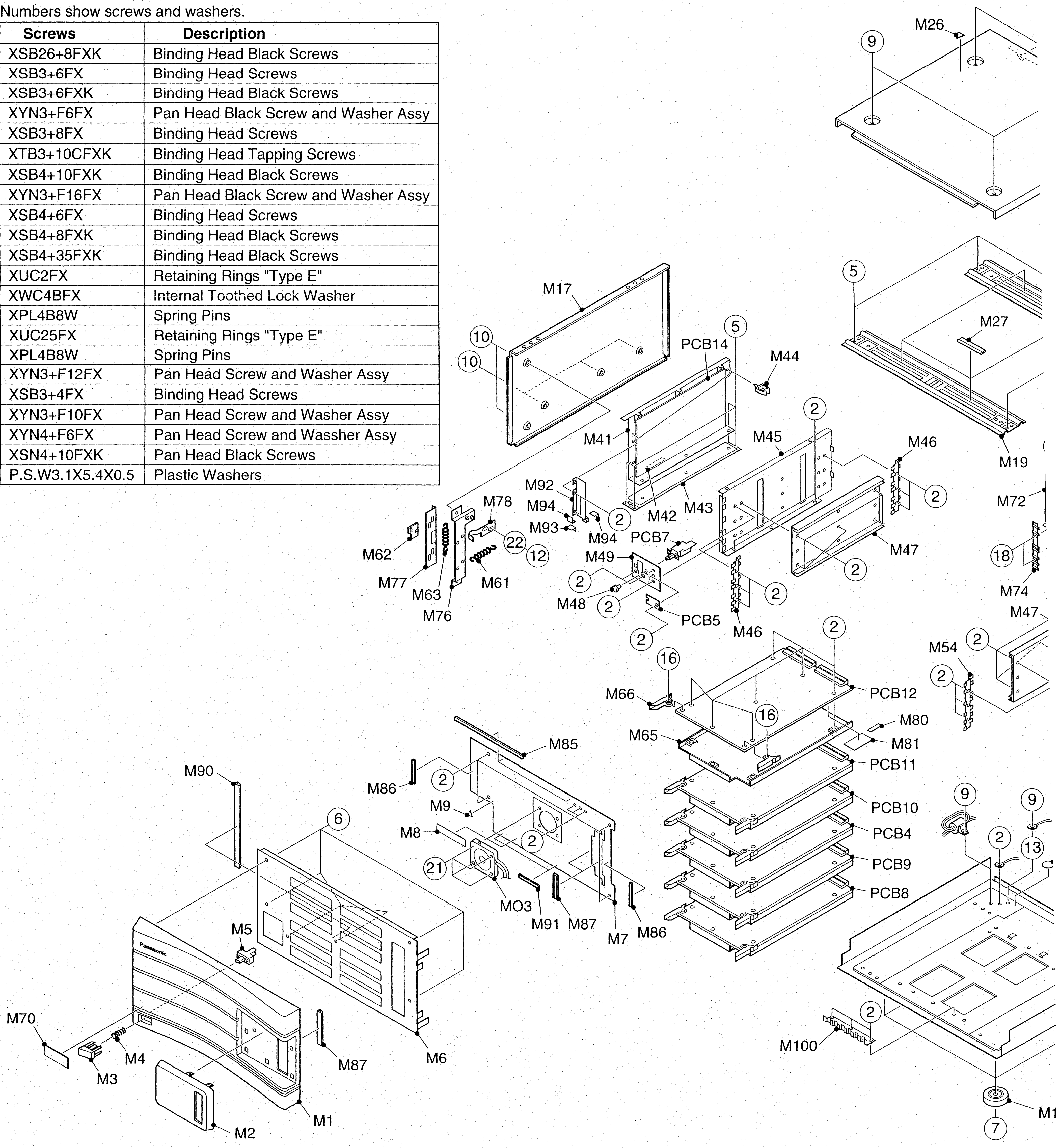
CG BOARD

IC2	A3
IC3	A3
IC4	B3
IC6	A3
IC7	A3
IC8	B3
IC9	A4
IC10	A4
IC11	B4
IC12	A3
IC13	A3
IC14	B3
IC15	A2
IC16	A2
IC17	B2
IC18	A2
IC19	A2
IC20	B2
IC21	C3
IC22	C3
IC23	C3
IC24	C3
IC25	C3
IC26	C3
IC27	C3
IC28	C3
IC29	C4
IC30	C4
IC31	C4
IC32	C4
IC33	C3
IC34	C3
IC35	D4
IC36	D4
IC37	D3
IC38	D3
IC39	D3
IC40	D3
IC41	D3
IC42	D3
IC43	B3
IC44	D4
IC45	E2
IC46	D1
IC47	D1
IC48	D1
IC49	D1
IC50	D1
IC51	D1
IC52	D2
IC53	D2
IC54	D2
IC55	D2
IC56	D2
IC57	D2
IC59	E1
IC60	E1
IC61	C2
IC62(CN6)	C1
IC63	C7
IC64	C7
IC65	C2
IC66	E6
IC67	C2
IC68	C1
IC69	C2
IC70	C1
IC71	C2
IC72	C2
IC73	C2
IC74	A7
IC75	A7
IC76	B7
IC77	B7
IC78	A1
IC79	A1
IC80	B1
IC81	B1
IC82	D2
IC83	D2
IC84	D3
IC85	D3
IC86	D3
IC87	D3
IC88	E3
IC89	E2
IC90	E2
IC91	A2
IC92	A2
IC93	B2
IC94	A2
IC95	A2
IC96	B2
IC97	A7
IC98	A1
IC99	B2
IC100	B3
IC101	B3
IC102	B2
IC103	E2
IC104	E3
IC105	E3
IC106	A2
IC107	A2

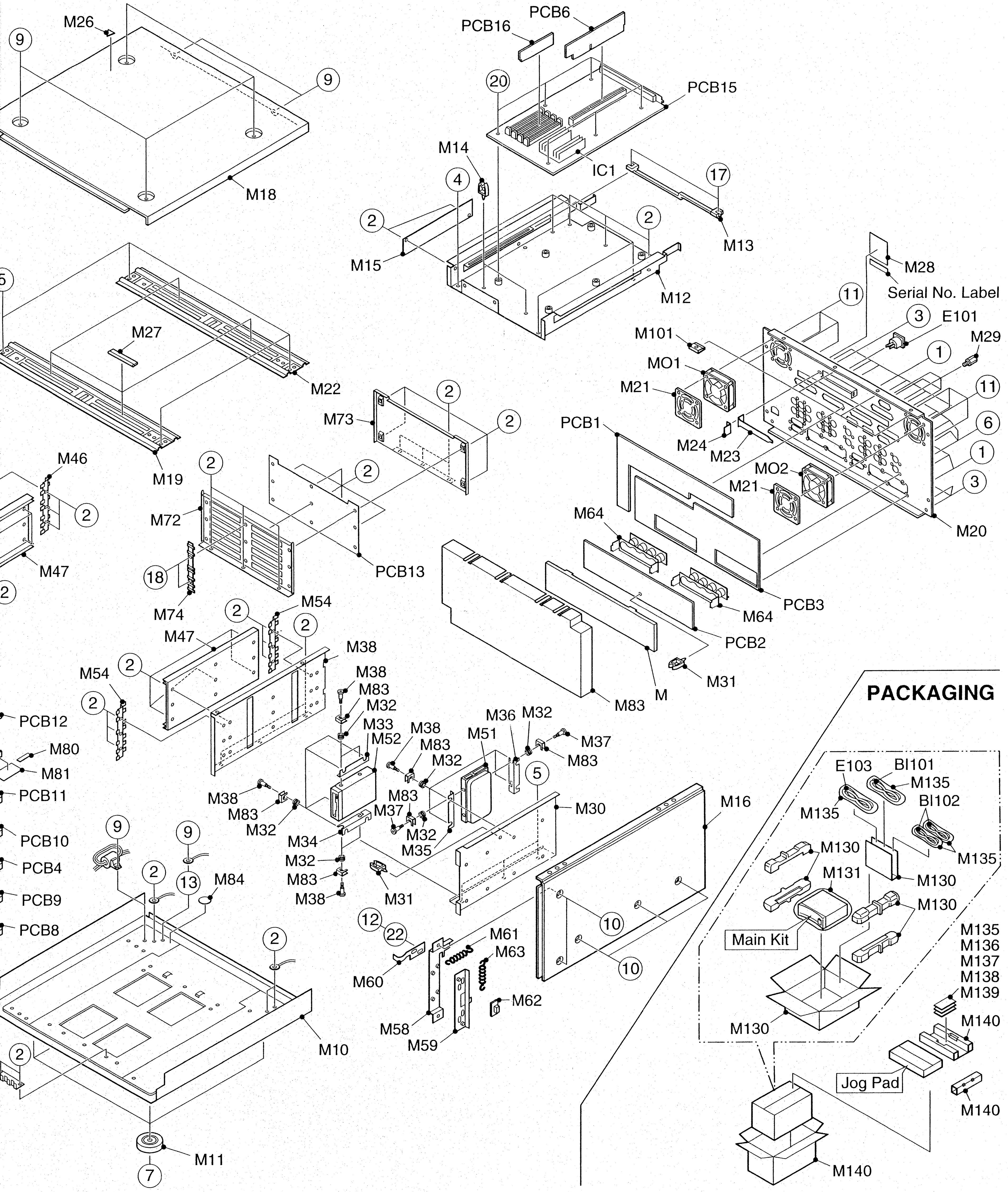
EXPLODED VIE

○ Numbers show screws and washers.

No.	Screws	Description
①	XSB26+8FXK	Binding Head Black Screws
②	XSB3+6FX	Binding Head Screws
③	XSB3+6FXK	Binding Head Black Screws
④	XYN3+F6FX	Pan Head Black Screw and Washer Assy
⑤	XSB3+8FX	Binding Head Screws
⑥	XTB3+10CFXK	Binding Head Tapping Screws
⑦	XSB4+10FXK	Binding Head Black Screws
⑧	XYN3+F16FX	Pan Head Black Screw and Washer Assy
⑨	XSB4+6FX	Binding Head Screws
⑩	XSB4+8FXK	Binding Head Black Screws
⑪	XSB4+35FXK	Binding Head Black Screws
⑫	XUC2FX	Retaining Rings "Type E"
⑬	XWC4BFX	Internal Toothed Lock Washer
⑭	XPL4B8W	Spring Pins
⑮	XUC25FX	Retaining Rings "Type E"
⑯	XPL4B8W	Spring Pins
⑰	XYN3+F12FX	Pan Head Screw and Washer Assy
⑱	XSB3+4FX	Binding Head Screws
⑲	XYN3+F10FX	Pan Head Screw and Washer Assy
⑳	XYN4+F6FX	Pan Head Screw and Wassher Assy
㉑	XSN4+10FXK	Pan Head Black Screws
㉒	P.S.W3.1X5.4X0.5	Plastic Washers


M26
⑨
⑤
M27
M19
M72
⑱
M74
M47
M54
②
M17
⑩
⑩
PCB14
⑤
M44
M41
M45
②
M46
②
M92
M94
M93
M94
②
M42
M43
PCB7
M49
②
M48
②
PCB5
②
M47
②
M46
②
M78
M62
M77
M63
M76
㉒
⑫
M61
PCB12
M80
M81
PCB11
PCB10
PCB4
PCB9
PCB8
M66
⑯
⑯
M65
②
M85
M86
②
M9
M8
②
㉑
MO3
M91
M87
M7
M86
M90
⑥
M5
M70
M4
M3
M87
M6
M2
M1
Panasonic
⑨
⑨
②
⑬
M100
②
⑦
M1

EXPLODED VIEW


M26
9
M18
PCB16
PCB6
20
PCB15
M14
IC1
17
4
2
M15
M13
M12
M28
Serial No. Label
11
3
E101
M101
M29
MO1
1
M21
M27
M22
5
M73
PCB1
M24
M23
6
M46
M19
M72
PCB13
MO2
M20
M64
M47
18
M74
M54
PCB3
M38
PCB2
M31
M
M83
PCB12
M80
M81
PCB11
PCB10
PCB4
PCB9
PCB8
M33
M52
M83
M32
M36
M51
M37
M34
M35
M30
M16
M84
13
M10
M11
7
12
22
M60
M61
M63
M62
M58
M59
10
PACKAGING
E103
BI101
M135
BI102
M130
M131
Main Kit
M136
M137
M138
M139
M140
Jog Pad

WJ-MX1200K/B /G Exploded view

REPLACEMENT PARTS LIST

Important Notice

1. Components identified by " ⚠ " mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. RTL : Retention Time Limited.

REF. NO.		PART NO.	DESCRIPTION
		MISCELLANEOUS	
MO1,2	⚠	YWFBA06A12H	DC Motor
MO3	⚠	0610-12M-180	Fan
CF1		YWTRCN16716	Filter
F1	⚠	XBA1C50NU100	Current Fuse 5A
E1	⚠	YW840522	Fuse Insulator Cover
E101	⚠	YWACP03CS05	AC Inlet Socket
BI1		YWMX1000A1	Wire Assy for AC Inlet Socket CN101
BI4		YWMX1000A4	Wire Assy for Rear-1 Board CN18 and Mother Board CN18
BI5		YWMX1000A5	Wire Assy for Rear-1 Board CN30 and Mother Board CN30
BI6		YWMX1000A6	Wire Assy for Rear-1 Board CN20 and Mother Board CN20
BI7		YWMX1000A7	Wire Assy for Rear-2 Board CN16 and Mother Board CN16
BI8		YWMX1000A8	Wire Assy for Rear-2 Board CN15 and Mother Board CN15
BI9		YWMX1000A9	Wire Assy for Rear-1 Board CN13 and Mother Board CN13
BI10		YWMX1000A10	Wire Assy for Rear-2 Board CN27 and Mother Board CN27
BI11		YWMX1000A11	Wire Assy for Rear-3 Board CN19 and Mother Board CN19
BI12		YWMX1000A12	Wire Assy for ISA Board CN17 and Mother Board CN17
BI13		YWMX1000A13	Wire
BI14		YWMX1000A14	Wire Assy for CPU Board J7
BI15		YWMX1000A15	Wire Assy for FDD and CPU Board
BI16		YWMX1000A16	Wire Assy for CPU Board and Power Board CN3
BI17		YWMX1000A17	Wire Assy for LED Board CN1 and Power Board CN8
BI18		YWMX1000A18	Wire Assy for Power Board CN4 and Fan
BI19		YWMX1000A19	Wire Assy for FDD and Power Board CN6
BI20		YWMX1000A20	Wire Assy for HDD and Power Board CN7
BI21		YWMX1000A21	Wire Assy for Power Board CN101 and Power Switch
BI22		YWMX100AA2	Wire
BI23		YWMX1000A33	Wire Assy for CPU Board J16 and I/F Board CN6
M1		YWV5WB1676A1	Front Panel
M2		YWV5WA1677A1	Front Sub Panel
M3		YWV5RA0432A3	Knob

REF. NO.		PART NO.	DESCRIPTION
M4		YWV4JA0505A4	Spring
M5		YWV1SA1006A3	Power Indicator Lens
M6		YWV2KA0925A1	Front Chassis
M7		YWV9AB2036CN	Front Blank Panel
M8		YWV7SA2115A4	GEN Lock Control Label
M9	⚠	YWV7MB0103A4	Shock Label
M10		YWV9AA2032AN	Bottom Chassis
M11		YWFF10050L	Foot
M12		YWV2SA4327A1	Mounting Angle for CPU Board
M13		YWV2EB0235A3	Guide
M14		YWWS3NS	Spacer
M15		YWV2PA0646A4	Insulator for Panel
M16		YWV9AA2033EN	Right Side Cover
M17		YWV9AB2033EN	Left Side Cover
M18		YWV9AA2031BN	Upper Cover
M19		YWV3BC0129A3	Supporting Angle
M20		YWV5WA2218A1	Rear Panel
M21		YWV2SA2796A4	Mounting Angle
M22		YWV3BA0129B3	Supporting Angle
M23		YWV5WA1675A4	Blank Panel
M24		YWV2SA2787A4	Mounting Angle
M25	⚠	UAMS-05SV0	Cord Clamp
M26	⚠	YFV7MA0103A4	Safety Label
M27		YWCSM309547A	Cushion
M28	⚠	YW7C1A011A	Main Label for WJ-MX1200K/B
		YW7C1A012A	Main Label for WJ-MX1200K/G
M29		YWSF26SB1WM	Special Screw
M30		YWV2SA2779A1	Mounting Angle for FDD, HDD
M31	⚠	YWUAMS05V0	Cord Clamp
M32		YWV2FA0698A4	Cushion
M33		YWV2SA2780A3	Mounting Angle for FDD Right Side
M34		YWV2SB2780A3	Mounting Angle for FDD Left Side
M35		YWV2SA2782A3	Mounting Angle for HDD Right Side
M36		YWV2SB2782A3	Mounting Angle for HDD Left Side
M37		YWV1EA0292A4	Special Screw
M38		YWV1EA0293A4	Special Screw
M39	⚠	YFV7MB0103A4	Shock Label
M41		YWV2SA2791A1	Mounting Angle
M42	⚠	YWV2PA0645A4	Insulator
M43		YWV2SA2792A3	Mounting Angle
M44		YWWS2NSL	Spacer
M45		YWV2SB2784A1	Mounting Angle (Left)
M46	⚠	YWV2HB1204A3	Shield Parts
M47		YWV2EA0234A2	Guide
M48		YWV5RA0448A4	Power Switch Knob

REF. NO.	PART NO.	DESCRIPTION
M49	YWV2SA4328A3	Mounting Angle for Power Switch
M51	YWVDAC21200	HDD
M52	YWJU256A6P	FDD
M53	YWV2SA2784A1	Mounting Angle (Right)
M54	YWV2HA1204A3	Shield Parts
M58	YWV2SA2794A3	Mounting Angle
M59	YWV2SA2795A3	Mounting Angle
M60	YWV2SA2805A4	Mounting Angle
M61	YWV4JA0506A4	Spring
M62	YWV6JA0196A4	Button
M63	YWV4JA0502A4	Spring
M64	YWV2SA2789A3	Mounting Angle
M65	YWV2HA1206A3	Shield Parts
M66	YWV4RA0121A3	Lever
M70	YWV7SA3046B3	Important Label
M72	YWV2SA2790A2	Mounting Angle for Mother Board
M73	YWV2HA2030A2	Shield Parts for Mother Board
M74	YWV2HA1217A3	Earth Spring for Mother Board
M76	YWV2SB2794A3	Mounting Angle
M77	YWV2SB2795A3	Mounting Angle
M78	YWV2SB2805A4	Mounting Angle
M80	YWV2SA2084A4	Blank Label S
M81	YWV2SA2083A4	Blank Label L
M83	YWV2HA2007B2	Shield Parts
M84	YWA7SA0689A4	Label
M85	YW1C1A012A	Cushion
M86	YW1C1A013A	Cushion
M87	YW1C1A041A	Cushion
M90	YW1C1A011A	Cushion
M91	YW1C1A014A	Cushion
M92	YWV2HA2008A3	Shield Parts
M93	YWV2PA1012A4	Shield Parts
M94	YWV2PA1013A4	Shield Parts
M100	YWV4JA1015A3	Shield Parts

MIXER BOARD

REF. NO.	PART NO.	DESCRIPTION
PCB4 (RTL)	YWV0EA1025AN	Printed Circuit Board Ass'y
IC1-3	UPD485505G25	IC
IC4-15	YWM5M4C500AV	IC
IC16,17	YWSC7SU04F	IC
IC18-22	MC74HC574AF	IC
IC23	YWSC7S00F	IC
IC24	YWMC74AC74M	IC
IC25	YWSC7S00F	IC
IC26	YWSC7SU04F	IC
IC27	YWL7A1113	IC

REF. NO.	PART NO.	DESCRIPTION
IC28-30	UPD485505G25	IC
IC33,34	UPD485505G25	IC
IC35	MC74HC157AF	IC
IC36	YWSC7SU04F	IC
IC37-43	MC74HC574AF	IC
IC44-46	UPD485505G25	IC
IC47-58	YWM5M4C500AV	IC
IC59	MC74HC574AF	IC
IC60	YWSC7SU04F	IC
IC61,63	MC74HC574AF	IC
IC64,65	MC74HC574AF	IC
IC66	YWL7A1113	IC
IC67-69	UPD485505G25	IC
IC70	YWSC7SU04F	IC
IC71	YWPD65658191	IC
IC73,74	UPD485505G25	IC
IC75	SC7SU04FER	IC
IC76	YWMC74AC74M	IC
IC77	MC74HC574AF	IC
IC79	YWSC7S08F	IC
IC90	MC74HC574AF	IC
IC201	YWL7A1399	IC
IC202	YWPD65664106	IC
IC203-207	YWHM63021FP	IC
IC208	UPD485505G25	IC
IC209	YWL7A1398	IC
IC210	UPD485505G25	IC
IC212	SS400212CA	IC
IC214	YWPD65658138	IC
IC215,216	YWMB40968PF	IC
IC217	YW78L05UATE2	IC
IC218-221	YWMC74AC541M	IC
IC222	YWPD65044U07	IC
IC223	YWLM1881M	IC
IC224-227	YWSC7SU04F	IC
IC230	MC74HC240AF	IC
IC231	YWMC74HC08AF	IC
IC232	YWSC7SU04F	IC
IC233	YWMC74HC74AF	IC
IC235	YWSC7SU04F	IC
IC236,237	YWMC74HC157F	IC
IC238,239	YWMC74HC157F	IC
IC240	YWSC7S08F	IC
IC501	MC74HC574AF	IC
IC502	YWSC7S32F	IC
IC503	YWMC74AC04M	IC
IC504	YWMC74AC32M	IC
IC505	YWM51953BFP	IC
IC506	MC74HC174AF	IC
IC507	YWM68340FE16	IC

REF. NO.	PART NO.	DESCRIPTION
IC508,509	YWCXK581000A	LSI
IC510-512	YWMC74HC74AF	IC
IC513	MC74HC138AF	IC
IC514,515	YWMC74HC27F	IC
IC517	YWMC74AC157M	IC
IC518	YW16V8AV03A	IC
IC519,520	YWSNHCT652DW	IC
IC521,522	MC74HC574AF	IC
IC524	YWSC7S08F	IC
IC525	YWMC74AC32M	IC
IC528	YWSC7S08F	IC
IC529	YWMC74HC27F	IC
IC530	MC74HC138AF	IC
IC531,532	YWMC74HC74AF	IC
IC533	MC74HC245AF	IC
IC534	MC74HC245AF	IC
IC535,536	MC74HC541AF	IC
IC537	MC74HC125AF	IC
IC701	79L05UATE2	IC
IC702	YWNJM2235M	IC
IC703	YWNJM2235M	IC
IC704,705	YWSC7S08F	IC
IC706	79L05UATE2	IC
IC707,708	YWSC7S08F	IC
IC709-711	YWNJM2235M	IC
IC712	YWSC7SU04F	IC
IC713,714	YWSC7S08F	IC
IC851	79L05UATE2	IC
IC852	YWSC7SU04F	IC
Q1,2	MSB709-QRS	Transistor
Q3	2SK198-PQR	Transistor
Q4,5	MSB709-QRS	Transistor
Q6	2SK198-PQR	Transistor
Q201-204	MSB709-QRS	Transistor
Q205,206	2SK198-PQR	Transistor
Q207-214	MSD601-QRS	Transistor
Q221,222	MSD601-QRS	Transistor
Q501,701	MSD601-QRS	Transistor
Q702	MSB709-QRS	Transistor
Q703-707	MSD601-QRS	Transistor
Q708	MSB709-QRS	Transistor
Q709,710	MSD601-QRS	Transistor
Q711,712	MSB709-QRS	Transistor
Q713,Q714	MSD601-QRS	Transistor
Q715	MSB709-QRS	Transistor
Q716	MSD601-QRS	Transistor
Q717	MSB709-QRS	Transistor
Q718-723	MSD601-QRS	Transistor
Q724	MSB709-QRS	Transistor
Q725	MSD601-QRS	Transistor

REF. NO.	PART NO.	DESCRIPTION
Q726	MSB709-QRS	Transistor
Q727	MSD601-QRS	Transistor
Q728	MSB709-QRS	Transistor
Q729,730	MSD601-QRS	Transistor
Q731	MSB709-QRS	Transistor
Q732	MSD601-QRS	Transistor
Q733	MSB709-QRS	Transistor
Q734	MSD601-QRS	Transistor
Q735	MSB709-QRS	Transistor
Q736,737	MSD601-QRS	Transistor
Q738-740	MSD601-QRS	Transistor
Q741	MSB709-QRS	Transistor
Q742	MSD601-QRS	Transistor
Q743	MSB709-QRS	Transistor
Q744	MSD601-QRS	Transistor
Q745	MSB709-QRS	Transistor
Q746,747	MSD601-QRS	Transistor
Q748	MSB709-QRS	Transistor
Q749	MSD601-QRS	Transistor
Q750,751	MSB709-QRS	Transistor
Q752	MSD601-QRS	Transistor
Q753	MSB709-QRS	Transistor
Q754	MSD601-QRS	Transistor
Q755	MSB709-QRS	Transistor
Q756,757	MSD601-QRS	Transistor
Q758	MSB709-QRS	Transistor
Q759	MSD601-QRS	Transistor
Q760	MSB709-QRS	Transistor
Q761	MSD601-QRS	Transistor
Q762	MSB709-QRS	Transistor
Q763-768	MSD601-QRS	Transistor
Q769	MSB709-QRS	Transistor
Q770	MSD601-QRS	Transistor
Q771	MSB709-QRS	Transistor
Q772	MSD601-QRS	Transistor
Q773	MSB709-QRS	Transistor
Q774,775	MSD601-QRS	Transistor
Q776	MSB709-QRS	Transistor
Q777	MSD601-QRS	Transistor
Q778	MSB709-QRS	Transistor
Q779	MSD601-QRS	Transistor
Q780	MSB709-QRS	Transistor
Q781-786	MSD601-QRS	Transistor
Q787	MSB709-QRS	Transistor
Q788	MSD601-QRS	Transistor
Q789	MSB709-QRS	Transistor
Q790	MSD601-QRS	Transistor
Q791	MSB709-QRS	Transistor
Q792,793	MSD601-QRS	Transistor
Q794	MSB709-QRS	Transistor

REF. NO.	PART NO.	DESCRIPTION	
Q795	MSD601-QRS	Transistor	
Q796	MSB709-QRS	Transistor	
Q797	MSD601-QRS	Transistor	
Q798-800	MSB709-QRS	Transistor	
Q801,802	MSD601-QRS	Transistor	
Q803,804	MSB709-QRS	Transistor	
Q805,806	MSD601-QRS	Transistor	
Q807,808	MSB709-QRS	Transistor	
Q855,856	MSD601-QRS	Transistor	
Q852	MSD601-QRS	Transistor	
Q853	MSB709-QRS	Transistor	
Q854	MSD601-QRS	Transistor	
D1,2	1SV153T3P1	Diode	
D201-204	YWHVU359TRF	Diode	
D205-211	YWDAN212K97	Diode	
R1	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R2	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R3,4	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R5-16	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R17-19	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R20,21	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R22-24	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R25	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R26	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R27	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R28	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R29	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R30	ERJ6GEYJ752	Carbon	7.5K ohms 1/10W
R31	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R32	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R33	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R34	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R35	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R36	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R37	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R38,42	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R43	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R44	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R45,46	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R47-58	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R59-64	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R65	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R66	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R67	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R68	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R69	ERJ6GEYJ752	Carbon	7.5K ohms 1/10W
R70	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R71	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R72	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R73	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R74	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R75	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R76,80	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R82	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R83	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R84-89	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R90-92	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R93	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R94	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R95,96	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R100	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R201	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R203	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R204	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R206	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R207	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R209	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R210-212	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R213,214	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R216-219	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R220-222	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R226	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R228	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R229	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R231-239	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R240	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R241,242	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R243,255	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R257,260	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R262	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R264-266	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R268	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R269	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R271	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R272	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R273	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R274	ERJ6GEYJ513	Carbon	51K ohms 1/10W
R275	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R276	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R277,278	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R279-288	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R289	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R290	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R292	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R293	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R294	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R295,296	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R298	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R299	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R300	ERJ6GEYJ511	Carbon	510 ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R301	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R302	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R303	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R304	ERJ6GEYJ684	Carbon	680K ohms 1/10W
R305,306	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R308,309	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R311	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R312	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R314,315	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R317	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R318	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R319,320	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R321	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R322	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R323	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R324	ERJ6GEYJ511	Carbon	51 ohms 1/10W
R325	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R326	ERJ6GEYJ123	Carbon	12K ohms 1/10W
R327	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R328	ERJ6GEYJ183	Carbon	18K ohms 1/10W
R329	ERJ6GEYJ822	Carbon	8.2K ohms 1/10W
R330,331	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R332	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R333,334	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R335	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R336	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R337	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R338	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R339	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R341	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R346	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R347	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R348	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R349	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R351	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R352	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R353	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R354	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R355	ERJ6GEYJ561	Carbon	560 ohms 1/10W
R356	ERJ6GEYJ221	Carbon	20 1/10W
R357	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R358	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R359,360	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R363-365	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R366	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R367	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R368	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R369	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R371	ERJ6GEYJ561	Carbon	560 ohms 1/10W
R372	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R373,400	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R501,502	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R503	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R504-506	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R507-509	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R510	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R511,512	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R513	ERJ6GEYJ106	Carbon	10M ohms 1/10W
R514	ERJ6GEYJ334	Carbon	330K ohms 1/10W
R515,516	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R517,518	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R519-522	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R523-529	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R530	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R531-535	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R537	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R538,539	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R540	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R541	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R542	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R543,544	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R548	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R550-552	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R553	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R554-559	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R560	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R561-563	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R564	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R565,566	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R567,568	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R701	ERJ14YJ751H	Carbon	750 ohms 1/4W
R702,703	YWR1220P102D	Metal	1K ohms 1/10W
R706	YWR1220P222D	Metal	2.2K ohms 1/10W
R707	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R708	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R709	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R710,711	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R712	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R713	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R714	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R715	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R716	YWR1220P511D	Metal	510 ohms 1/10W
R717	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R718	YWR1220P222D	Metal	2.2K ohms 1/10W
R719	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R720	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R721	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R722	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R723	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R724	ERJ6GEYJ102	Carbon	1K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION
R725	ERJ6GEYJ473	Carbon 47K ohms 1/10W
R726	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R727	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R728	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R729,730	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R731	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R732	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R733	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R734,735	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R736,737	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R738	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R739	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R740	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R742	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R743	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R744	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R745	YWR1220P102	Metal 1K ohms 1/10W
R746	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R747	ERJ14YJ100H	Carbon 10 ohms 1/4W
R748	YWR1220P182D	Metal 1.8K ohms 1/10W
R749	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R750	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R751	ERJ6GEYJ472	Carbon 4.7K ohms 1/10W
R752	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R753	ERJ6GEYJ332	Carbon 3.3K ohms 1/10W
R754	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R755	ERJ6GEYJ473	Carbon 47K ohms 1/10W
R756	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R757	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R758	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R759,760	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R761,762	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R763	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R764,765	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R766,767	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R768	ERJ14YJ751H	Carbon 750 ohms 1/4W
R769-771	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R772-774	ERJ6GEYJ332	Carbon 3.3K ohms 1/10W
R775	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R776	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R777	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R778	R1220P221D	Metal 220 ohms 1/10W
R779	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R780	YWR1220P162D	Metal 1.6K ohms 1/10W
R781	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R782	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R783	ERJ6GEYJ472	Carbon 4.7K ohms 1/10W
R784	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R785	ERJ6GEYJ332	Carbon 3.3K ohms 1/10W
R786	ERJ6GEYJ102	Carbon 1K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION
R787	ERJ6GEYJ273	Carbon 27K ohms 1/10W
R788	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R789	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R790	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R791,792	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R793,794	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R795	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R796,797	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R798,799	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R800	ERJ6GEYJ473	Carbon 47K ohms 1/10W
R801	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R802	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R803	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R804,805	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R806	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R807	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R808	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R809,810	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R811,812	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R813	ERJ14YJ751H	Carbon 750 ohms 1/4W
R814-816	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R817	ERJ6GEYJ331	Carbon 330 ohms 1/10W
R818	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R819	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R820	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R821	YWR1220P511D	Metal 510 ohms 1/10W
R822	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R823	ERJ14YJ100H	Carbon 10 ohms 1/4W
R824	YWR1220P222D	Metal 2.2K ohms 1/10W
R825	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R826	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R827	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R828	ERJ6GEYJ472	Carbon 4.7K ohms 1/10W
R829	ERJ6GEYJ332	Carbon 3.3K ohms 1/10W
R831,832	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R833,R834	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R835	ERJ14YJ100H	Carbon 10 ohms 1/4W
R836	ERJ6GEYJ273	Carbon 27K ohms 1/10W
R837	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R838	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R839,840	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R841,842	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R843	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R844	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R845,846	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R847,848	ERJ6GEYJ330	Carbon 33 ohms 1/10W
R849	ERJ14YJ751H	Carbon 750 ohms 1/4W
R850	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R851,852	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R853	ERJ6GEYJ331	Carbon 330 ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R854	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R855	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R856	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R857	YWR1220P511D	Metal	510 ohms 1/10W
R858	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R859	ERJ14YJ100H	Carbon	10 ohms 1/4W
R860	YWR1220P222D	Metal	2.2K ohms 1/10W
R861	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R862	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R863	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R864	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R865	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R867,868	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R869,870	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R871	ERJ14YJ100H	Carbon	10 ohms 1/10W
R872	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R873	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R874	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R875	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R876	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R877,878	ERJ6GEYJ330	Carbon	33 ohms 1/10W
R879	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R880	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R881,882	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R883,884	ERJ6GEYJ330	Carbon	33 ohms 1/10W
R885-R888	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R889	YWR1220P561D	Metal	560 ohms 1/10W
R890	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R891	YWR1220P392D	Metal	3.9K ohms 1/10W
R893	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R894	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R895	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R896	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R897-900	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R901,902	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R903,904	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R905,906	YWR1220P102D	Metal	1K ohms 1/10W
R907	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R908	YWR1220P123D	Metal	12K ohms 1/10W
R909	R1220P133D	Metal	13K ohms 1/10W
R910	ERJ6GEYJ471	Carbon	470 ohms 1/10W
R911,912	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R913	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R914,915	YWR1220P102D	Metal	1K ohms 1/10W
R916-918	ERJ14YJ100H	Carbon	10 ohms 1/10W
R926	ERJ6GEYJ152	Carbon	1.5K ohms 1/10W
R928,929	ERJ14Y0R00H	Carbon	0 ohm 1/4W
R930	ERJ6GEYJ102V	Carbon	1K ohms 1/10W
R935	ERJ6GEYJ332V	Carbon	3.3K ohms 1/10W
R936,937	ERJ6GEYJ225	Carbon	2.2M ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R938	ERJ6GEYJ182	Carbon	1.8K ohms 1/10W
R939	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R940	R1220P132D	Metal	1.3K ohms 1/10W
R941	R1220P122D	Metal	1.2K ohms 1/10W
R942	R1220P132D	Metal	1.3K ohms 1/10W
R943	R1220P122D	Metal	1.2K ohms 1/10W
R944	R1220P132D	Metal	1.3K ohms 1/10W
R945	R1220P122D	Metal	1.2K ohms 1/10W
R946	ERJ14Y0R00H	Carbon	0 ohms 1/4W
R947	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R948	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R950	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R951	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R952	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R953,955	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R956-958	ERJ3GEY0R00	Carbon	0 ohm 1/10W
R961	ERJ3GEY0R00	Carbon	0 ohm 1/10W
VR201	ST4TG203	Variable Resistor	20K ohms
VR202	EVM1DSW30B14	Variable Resistor	10K ohms
VR204	ST4TG103	Variable Resistor	10K ohms
VR701-705	EVM1DSW30B13	Varible Resistor	1K ohms
VR706,707	EVM1DSW30BE3	Varible Resistor	2.2K ohms
VR708	EVM1DSW30B23	Varible Resistor	2K ohms
Z1-4	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z5-20	EXBV8V221J	Block Resistor	220 ohms
Z21-35	EXBV8V221J	Block Resistor	220 ohms
Z36-51	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z201-206	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z207	EXBM16P103J	Block Resistor	10K ohms
Z208-216	EXBV8V221J	Block Resistor	220 ohms
Z217-223	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z224-240	EXBV8V221J	Block Resistor	220 ohms
Z241	EXBM16P103J	Block Resistor	10K ohms
Z501-503	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z504-511	EXBV8V331J	Block Resistor	330 ohms 1/10W
Z512	EXBM16P103J	Block Resistor	10K ohms 1/32W
Z513-518	EXBV8V221J	Block Resistor	220 ohms 1/32W
Z519,520	EXBM16P103J	Block Resistor	10K ohms 1/32W
Z521-524	EXBV8V221J	Block Resistor	220 ohms 132W
Z525	EXBM16P103J	Block Resistor	10K ohms 1/32W
Z526	EXBV8V221J	Block Resistor	220 ohms 1/32W
Z527-540	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z541	EXBM16P103J	Block Resistor	10K ohms 1/32W
Z542-545	EXBV8V103J	Block Resistor	10K ohms 1/32W
C1	ECEV1CA101P	Electrolytic	100 µF 16V
C2,3	YWT316B104MT	Ceramic	0.1 µF
C4	ECEV1CA101P	Electrolytic	100 µF 16V
C5,6	ECEV1CG470GP	Electrolytic	47 µF 16V
C7-11	YWT316B104MT	Ceramic	0.1 µF
C13-42	YWT316B104MT	Ceramic	0.1 µF

REF. NO.	PART NO.	DESCRIPTION	
C43	ECEV1CG220GP	Electrolytic	22 μF 16V
C44	ECEV0JA471P	Electrolytic	470 μF 6.3V
C45,46	YWT316B104MT	Ceramic	0.1 μF
C47	ECEV1CG220GP	Electrolytic	22 μF 16V
C48	ECEV0JA471P	Electrolytic	470 μF 6.3V
C49-58	YWT316B104MT	Ceramic	0.1 μF
C59-62	YWT316B104MT	Ceramic	0.1 μF
C63	YGM2C270J1HT	Ceramic	27 pF 50V
C64	YGM2C561J1HT	Ceramic	560 pF 50V
C65	YWT316B104MT	Ceramic	0.1 μF
C66	ECEV1CG470GP	Electrolytic	47 μF 16V
C67	ECEV1HG2R2GR	Electrolytic	2.2 μF 50V
C68	YF400332XKT	Ceramic	3300 pF
C69	YF400103XKT	Ceramic	0.01 μF
C70	YGM2C101J1HT	Ceramic	100 pF 50V
C71-78	YWT316B104MT	Ceramic	0.1 μF
C83,84	ECEV1CG470GP	Electrolytic	47 μF 16V
C85-87	YWT316B104MT	Ceramic	0.1 μF
C89-115	YWT316B104MT	Ceramic	0.1 μF
C116	ECEV1CG220GP	Electrolytic	22 μF 16V
C117	ECEV0JA471P	Electrolytic	470 μF 6.3V
C118,119	YWT316B104MT	Ceramic	0.1 μF
C120	ECEV1CG220GP	Electrolytic	22 μF 16V
C121	ECEV0JA471P	Electrolytic	470 μF 6.3V
C122-135	YWT316B104MT	Ceramic	0.1 μF
C136	YGM2C270J1HT	Ceramic	27 pF 50V
C137	ECEV1CG470GP	Electrolytic	47 μF 16V
C138	YWT316B104MT	Ceramic	0.1 μF
C139	YGM2C561J1HT	Ceramic	560 pF 50V
C140	ECEV1HG2R2GR	Electrolytic	50 V 2.2μF
C141	YF400332XKT	Ceramic	3300 pF
C142	YWT316B104MT	Ceramic	0.1 μF
C143,144	ECEV1CG470GP	Electrolytic	16 V 47μF
C145	ECEV1CA101P	Electrolytic	16 V 100μF
C146,147	YWT316B104MT	Ceramic	0.1 μF
C148	ECEV1CA101P	Electrolytic	16 V 100μF
C149	YWT316B104MT	Ceramic	0.1 μF
C150	ECEV1CG470GP	Electrolytic	16 V 47μF
C151-154	YWT316B104MT	Ceramic	0.1 μF
C155	YF400103XKT	Ceramic	0.01 μF
C156	YGM2C101J1HT	Ceramic	100 pF 50V
C157	YWT316B104MT	Ceramic	0.1 μF
C209-216	YGM2C330J1HT	Ceramic	33 pF 50V
C225-232	YGM2C330J1HT	Ceramic	33 pF 50V
C241-246	YGM2C330J1HT	Ceramic	33 pF 50V
C247	ECEV1CA101P	Electrolytic	100 μF 16V
C248,249	YWT316B104MT	Ceramic	0.1 μF
C250	ECEV1CA101P	Electrolytic	100 μF 16V
C251	ECEV1CG470GP	Electrolytic	47μF 16V
C252-261	YWT316B104MT	Ceramic	0.1 μF

REF. NO.	PART NO.	DESCRIPTION	
C262,264	YGM2C330J1HT	Ceramic	33 pF 50V
C266,268	YGM2C330J1HT	Ceramic	33 pF 50V
C270,272	YGM2C330J1HT	Ceramic	33 pF 50V
C274,276	YGM2C330J1HT	Ceramic	33 pF 50V
C278,280	YGM2C330J1HT	Ceramic	33 pF 50V
C282,284	YGM2C330J1HT	Ceramic	33 pF 50V
C287,289	YGM2C330J1HT	Ceramic	33 pF 50V
C291,293	YGM2C330J1HT	Ceramic	33 pF 50V
C295,297	YGM2C330J1HT	Ceramic	33 pF 50V
C299,301	YGM2C330J1HT	Ceramic	33 pF 50V
C303,305	YGM2C330J1HT	Ceramic	33 pF 50V
C307,309	YGM2C330J1HT	Ceramic	33 pF 50V
C311,313	YGM2C330J1HT	Ceramic	33 pF 50V
C315,317	YGM2C330J1HT	Ceramic	33 pF 50V
C318-331	YWT316B104MT	Ceramic	0.1 μF
C332,333	ECEV1CG470GP	Electrolytic	47 μF 16V
C334-342	YWT316B104MT	Ceramic	0.1 μF
C344-351	YWT316B104MT	Ceramic	0.1 μF
C352	ECEV1CG470GP	Electrolytic	47 μF 16V
C353-362	YWT316B104MT	Ceramic	0.1 μF
C363,364	TAJC226M010	Tantalum	22 μF 10V
C365	ECST1VX105ZR	Tantalum	1 μF 35V
C366,367	YWT316B104MT	Ceramic	0.1 μF
C368,369	TAJC226M010	Tantalum	22 μF 10V
C370	ECST1VX105ZR	Tantalum	1 μF 35V
C371	ECEV1CG470GP	Electrolytic	47 μF 16V
C372-378	YWT316B104MT	Ceramic	0.1 μF
C379	TAJC106M016R	Tantalum	10 μF 16V
C380	YF400182XKT	Ceramic	1800 pF
C381	YGM2B104K1ET	Ceramic	0.1 μF 25V
C382-384	YWT316B104MT	Ceramic	0.1 μF
C385,386	YF400102CHJT	Ceramic	1000 pF
C387	YWT316B104MT	Ceramic	0.1 μF
C388	YF400103XKT	Ceramic	0.01 μF
C389	YWT316B104MT	Ceramic	0.1 μF
C390	ECEV1CG220GP	Electrolytic	22 μF 16V
C391,392	YWT316B104MT	Ceramic	0.1 μF
C393,394	YGM2C101J1HT	Ceramic	100 pF 50V
C395	YWT316B104MT	Ceramic	0.1 μF
C396	ECEV1HG2R2GR	Electrolytic	2.2 μF 50V
C397	YF400332XKT	Ceramic	3300 pF
C398	YF400103XKT	Ceramic	0.01 μF
C399	YGM2C331J1HT	Ceramic	330 pF 50V
C400	YF400103XKT	Ceramic	0.01 μF
C401	YWT316B104MT	Ceramic	0.1 μF
C402	ECEV1CG470GP	Electrolytic	47 μF 16V
C403	YWT316B104MT	Ceramic	0.1 μF
C404	YGM2C101J1HT	Ceramic	100 pF 50V
C405	TAJC226M010	Tantalum	22 μF 10V
C406	ECEV1CA101P	Electrolytic	100 μF 16V

REF. NO.	PART NO.	DESCRIPTION	
C407,408	YWT316B104MT	Ceramic	0.1 μF
C409	ECEV1CA101P	Electrolytic	100 μF 16V
C410	ECEV1CG220GP	Electrolytic	22 μF 16V
C411,412	YGM2V390J1HT	Ceramic	39 pF
C413	YF400300CHJT	Ceramic	30 pF 50V
C414	YF400100CHDT	Ceramic	10 pF 50V
C415	ECEV1CG220GP	Electrolytic	22 μF 16V
C417	ECEV1CG470GP	Electrolytic	47 μF 16V
C418	ECEV1CAN220P	Electrolytic	22 μF 16V
C419	YF400150CHJT	Ceramic	15 pF
C424	YGM2B104K1ET	Ceramic	0.1 μF 25V
C425	ECST1ED106ZR	Electrolytic	10 μF 25V
C426,427	YWT316B104MT	Ceramic	0.1 μF
C428	ECST1ED106ZR	Electrolytic	10 μF 25V
C429	YGM2C220J1HT	Ceramic	22 pF 50V
C430	YWT316B104MT	Ceramic	0.1 μF
C431	TAJC106M016	Tantalum	10 μF 16V
C432	YWT316B104MT	Ceramic	0.1 μF
C433	YF400105FZT	Ceramic	1 μF
C434,440	YWT316B104MT	Ceramic	0.1 μF
C441	YWT316B104MT	Ceramic	0.1 μF
C442-451	YGM2C330J1HT	Ceramic	33 pF 50V
C452-457	YWT316B104MT	Ceramic	0.1 μF
C458,459	ECEV1CG470GP	Electrolytic	47 μF 16V
C460	TAJC226M010	Tantalum	22 μF 10V
C461-465	ECEV1CG470GP	Electrolytic	47 μF 16V
C466	ECEV1CA101P	Electrolytic	100 μF 16V
C467,468	YWT316B104MT	Ceramic	0.1 μF
C469	ECEV1CA101P	Electrolytic	100 μF 16V
C470,471	YGM2C330J1HT	Ceramic	33 pF 50V
C472	YWT316B104MT	Ceramic	0.1 μF
C473	YGM2C330J1HT	Ceramic	33 pF 50V
C474	YWT316B104MT	Ceramic	0.1 μF
C478	YGM2B104K1ET	Ceramic	0.1 μF 25V
C479	YGM2C270J1HT	Ceramic	27 pF 50V
C480	YWT316B104MT	Ceramic	0.1 μF
C481,483	YGM2C330J1HT	Ceramic	33 pF 50V
C484	YWT316B104MT	Ceramic	0.1 μF
C485-487	ECEV1CG100GR	Electrolytic	10 μF 16V
C488	YGM2C221J1HT	Ceramic	220 pF 50V
C490	YGM2C220J1HT	Ceramic	22 pF 50V
C491	YF400150CHJT	Ceramic	15 pF
C492,493	ECST1AY106ZR	Tantalum	10 μF 10V
C496	YGM2C330J1HT	Ceramic	33 pF 50V
C497	YGM2C220J1HT	Ceramic	22 pF 50V
C498	YWT316B104MT	Ceramic	0.1 μF
C499	ECST1ED106ZR	Tantalum	10 μF 25V
C500	YGM2C101J1HT	Ceramic	100 pF 50V
C501	ECEV1CA101P	Electrolytic	100 μF 16V
C502,503	YWT316B104MT	Ceramic	0.1 μF

REF. NO.	PART NO.	DESCRIPTION	
C504,505	ECEV1CA101P	Electrolytic	100 μF 16V
C506,507	YWT316B104MT	Ceramic	0.1 μF
C508,509	ECEV1CA101P	Electrolytic	100 μF 16V
C510,511	YWT316B104MT	Ceramic	0.1 μF
C512	ECEV1CA101P	Electrolytic	100 μF 16V
C513,514	YWT316B104MT	Ceramic	0.1 μF
C515-518	YGM2C330J1HT	Ceramic	33 pF 50V
C520-524	YGM2C330J1HT	Ceramic	33 pF 50V
C526,528	YGM2C330J1HT	Ceramic	33 pF 50V
C530-562	YGM2C330J1HT	Ceramic	33 pF 50V
C564	YGM2C330J1HT	Ceramic	33 pF 50V
C566,568	YGM2C330J1HT	Ceramic	33 pF 50V
C570,572	YGM2C330J1HT	Ceramic	33 pF 50V
C574,576	YGM2C330J1HT	Ceramic	33 pF 50V
C578,580	YGM2C330J1HT	Ceramic	33 pF 50V
C582,584	YGM2C330J1HT	Ceramic	33 pF 50V
C586,588	YGM2C330J1HT	Ceramic	33 pF 50V
C590,592	YGM2C330J1HT	Ceramic	33 pF 50V
C594-599	YGM2C330J1HT	Ceramic	33 pF 50V
C600-602	YWT316B104MT	Ceramic	0.1 μF
C603	ECST1AY225ZR	Tantalum	2.2 μF 10V
C604	ECEV1CG470GP	Electrolytic	47 μF 16V
C605	YWT316B104MT	Ceramic	0.1 μF
C606	ECEV1CG470GP	Electrolytic	47 μF 16V
C607-615	YWT316B104MT	Ceramic	0.1 μF
C616,617	YF400200CHJT	Ceramic	20 pF
C618-625	YWT316B104MT	Ceramic	0.1 μF
C626	ECEV1CG470GP	Electrolytic	47 μF 16V
C627	YWT316B104MT	Ceramic	0.1 μF
C628	ECEV1CG470GP	Electrolytic	47 μF 16V
C629	YWT316B104MT	Ceramic	0.1 μF
C630	ECEV1CG470GP	Electrolytic	47 μF 16V
C631-636	YWT316B104MT	Ceramic	0.1 μF
C638	YWT316B104MT	Ceramic	0.1 μF
C639	ECEV1CG470GP	Electrolytic	47 μF 16V
C641-645	YWT316B104MT	Ceramic	0.1 μF
C646-684	YGM2C330J1HT	Ceramic	33 pF 50V
C686	YGM2C330J1HT	Ceramic	33 pF 50V
C688,689	YWT316B104MT	Ceramic	0.1 μF
C692,693	YGM2C330J1HT	Ceramic	33 pF 50V
C694	ECEV1CG470GP	Electrolytic	47 μF 16V
C695-699	YWT316B104MT	Ceramic	0.1 μF
C701	ECEV1EG470P	Electrolytic	47 μF 25V
C702,703	YWT316B104MT	Ceramic	0.1 μF
C704	ECEV1CG470GP	Electrolytic	47 μF 16V
C705	ECEV1EG470P	Electrolytic	47 μF 25V
C706,707	YWT316B104MT	Ceramic	0.1 μF
C708,709	ECEV1EG470P	Electrolytic	47 μF 25V
C710	YGM2C390J1HT	Ceramic	39 pF 50V
C711	YF400470CHJT	Ceramic	47 pF

REF. NO.	PART NO.	DESCRIPTION	
C712	ECEV1CG470GP	Electrolytic	47 μF 16V
C713	ECEV0JG470NP	Electrolytic	47 μF 6.3V
C714	YGM2C680J1HT	Ceramic	68 pF 50V
C715	ECEV1CA101P	Electrolytic	100 μF 16V
C716	ECEV1CG470GP	Electrolytic	47 μF 16V
C717	ECEV1CA101P	Electrolytic	100 μF 16V
C718	ECEV1CG470GP	Electrolytic	47 μF 16V
C719	YF400103XKT	Ceramic	0.01 μF
C720	ECEV1CG470GP	Electrolytic	47 μF 16V
C721	YF400103XKT	Ceramic	0.01 μF
C722	ECEV1EG470P	Electrolytic	47 μF 25V
C723	ECEV1CG470GP	Electrolytic	47 μF 16V
C724	YF400222XKT	Ceramic	2200 pF
C725	ECEV0JG470NP	Electrolytic	47 μF 6.3V
C726	YGM2C680J1HT	Ceramic	68 pF 50V
C727	ECEV1CA101P	Electrolytic	100 μF 16V
C728	ECEV1CG470GP	Electrolytic	47 μF 16V
C729	ECEV1CA101P	Electrolytic	100 μF 16V
C730	ECEV1CG470GP	Electrolytic	47 μF 16V
C731	YF400103XKT	Ceramic	0.01 μF
C732	ECEV1CG470GP	Electrolytic	47 μF 16V
C733	YF400103XKT	Ceramic	0.01 μF
C734	ECEV1EG470P	Electrolytic	47 μF 25V
C735	ECEV1CG470GP	Electrolytic	47 μF 16V
C736	ECEV1CG220GP	Electrolytic	22 μF 16V
C737	YF400222XKT	Ceramic	2200 pF
C738	ECEV1CA101P	Electrolytic	100 μF 16V
C739	ECEV1CG470GP	Electrolytic	47 μF 16V
C740	YF400222XKT	Ceramic	2200 pF
C741	ECEV1CG470GP	Electrolyti	47 μF 16V
C742	YF400103XKT	Ceramic	0.01 μF
C743	ECEV1CG470GP	Electrolytic	47 μF 16V
C744	YF400103XKT	Ceramic	0.01 μF
C745	ECEV1CA101P	Electrolytic	100 μF 16V
C746	ECEV1CG470GP	Electrolytic	47 μF 16V
C747	YF400103XKT	Ceramic	0.01 μF
C748	ECEV1CG470GP	Electrolytic	47 μF 16V
C749	YF400103XKT	Ceramic	0.01 μF
C750	ECEV1EG470P	Electrolytic	47 μF 25V
C751	ECEV1CG470GP	Electrolytic	47 μF 16V
C752,753	ECEV1CA101P	Electrolytic	100 μF 16V
C754	ECEV1CG470GP	Electrolytic	47 μF 16V
C755	ECEV1AAN330P	Electrolytic	33 μF 16V
C756,757	ECEV1CA101P	Electrolytic	100 μF 16V
C758	YWT316B104MT	Ceramic	0.1 μF
C759,760	ECEV1CG470GP	Electrolytic	47 μF 16V
C761	YF400103XKT	Ceramic	0.01 μF
C762	ECEV1CG470GP	Electrolytic	47 μF 16V
C763	YF400103XKT	Ceramic	0.01 μF
C764	ECEV1EG470P	Electrolytic	47 μF 25V

REF. NO.	PART NO.	DESCRIPTION	
C765	ECEV1CG470GP	Electrolytic	47 μF 16V
C766,767	ECEV1CA101P	Electrolytic	100 μF 16V
C768	ECEV1CG470GP	Electrolytic	47 μF 16V
C769	ECEV1AAN330P	Electrolytic	33 μF 10V
C770,771	ECEV1CA101P	Electrolytic	100 μF 16V
C772	YWT316B104MT	Ceramic	0.1 μF
C773,774	ECEV1CG470GP	Electrolytic	47 μF 16V
C775	YF400103XKT	Ceramic	0.01 μF
C776	ECEV1CG470GP	Electrolytic	47 μF 16V
C777	YF400103XKT	Ceramic	0.01 μF
C778	ECEV1CG470GP	Electrolytic	47 μF 16V
C779	YF400150CHJT	Ceramic	15 pF 50V
C780	YGM2C101J1HT	Ceramic	100 pF 50V
C781	YF400100CHDT	Ceramic	10 pF
C782	ECEV1EG4R7GR	Electrolytic	4.7 μF 25V
C783	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C784,785	ECEV0JG101GP	Electrolytic	100 μF 6.3V
C786,787	YWT316B104MT	Ceramic	0.1 μF
C788	ECEV1CG470GP	Electrolytic	47 μF 16V
C789	YWT316B104MT	Ceramic	0.1 μF
C790	ECEV1EG470P	Electrolytic	47 μF 25V
C791	YWT316B104MT	Ceramic	0.1 μF
C792	ECEV1EG470P	Electrolytic	47 μF 25V
C793	YWT316B104MT	Ceramic	0.1 μF
C794	ECEV1EG470P	Electrolytic	47 μF 25V
C795	YWT316B104MT	Ceramic	0.1 μF
C796	ECEV1EG470P	Electrolytic	47 μF 25V
C797	YWT316B104MT	Ceramic	0.1 μF
C798	ECEV1EG470P	Electrolytic	47 μF 25V
C799,802	YWT316B104MT	Ceramic	0.1 μF
C803	ECEV1CG470GP	Electrolytic	47 μF 16V
C804	YGM2C101J1HT	Ceramic	100 pF 50V
C805,810	YWT316B104MT	Ceramic	0.1 μF
C811-813	YWT316B104MT	Ceramic	0.1 μF
C814-816	YGM2C330J1HT	Ceramic	33 pF 50V
C817	YWT316B104MT	Ceramic	0.1 μF
C820-822	TAJD336M010	Tantalum	33 μF 10V
C850-852	YGM2B104K1ET	Ceramic	0.1 μF 25V
C855	YF400100CHDT	Ceramic	10 pF
C858,859	YGM2C330J1HT	Ceramic	33 pF 50V
C860	YWT316B104MT	Ceramic	0.1 μF
C861	ECEV1CG470GP	Electrolytic	47 μF 16V
C870	YF400100CHDT	Ceramic	10 pF
C871	YF400050CHDT	Ceramic	5 pF
C902-979	YGM2C330J1HT	Ceramic	33 pF 50V
C980,981	YGM2C820J1HT	Ceramic	82 pF 50V
C983	ECEV1CA101P	Electrolytic	100 μF 16V
C984	YGM2B104K1ET	Ceramic	0.1 μF 25V
C985	ECEV1CA101P	Electrolytic	100 μF 16V
C986	YGM2B104K1ET	Ceramic	0.1 μF 25V

REF. NO.	PART NO.	DESCRIPTION	
C987	ECST1ED106ZR	Electrolytic	10 μF 25V
C988	ECEV1AAN330P	Electrolytic	33 μF 10V
C989	YGM2B104K1ET	Ceramic	0.1 μF 25V
C990	ECST1ED106ZR	Electrolytic	10 μF 25V
C991-993	YGM2B104K1ET	Ceramic	0.1 μF 25V
C994-999	YWT316B104MT	Ceramic	0.1 μF
L1	YWCD75100KC	Coil	
L2-7	ELJFA1R0KF	Coil	1 μH
L8	YW5206JPS104	Coil	
L10-15	ELJFA1R0KF	Coil	
L16	YW5206JPS104	Coil	
L17	YWCD75100KC	Coil	
L18,201	ELJFA1R0KF	Coil	1 μH
L202	YWCD75100KC	Coil	
L203-206	ELJFA1R0KF	Coil	1 μH
L207	YWCD75100KC	Coil	
L208-L213	ELJFA1R0KF	Coil	1 μH
L214	YWCD75100KC	Coil	
L215	YWNL32T270J	Coil	27 μH
L216	ELJFA180KF	Coil	18 μH
L219,220	ELJFA1R0KF	Coil	1 μH
L221	YWCD75100KC	Coil	
L501-503	YWCD75100KC	Coil	
L504-508	ELJFA1R0KF	Coil	1 μH
L701	YWCD75100KC	Coil	
L702-718	ELJFA1R0KF	Coil	1 μH
L719	ELJFA101KF	Coil	100 μH
L720	ELJFA150KF	Coil	15 μH
L721	ELJFA1R0KF	Coil	1 μH
L730	ELJFA680KF	Coil	68 μH
L731-733	ELJFA1R0KF	Coil	1 μH
CF201	YW4FS6499	Filter	
CF701	YWCY4W057	Filter	
CF702	YWCY4W058	Filter	
CF703	YW2570JPS113	Filter	
CF704,705	YWCY4T058	Filter	
TH297	L311J302G302	Thermistor	
TH925	L311J152G502	Thermistor	
X201	YWDX17R734	Crystal Oscillator	
X202	YWDX27R000	Crystal Oscillator	

REF. NO.	PART NO.	DESCRIPTION	
X501	YWDMX38	Crystal Oscillator	
CN1	YW8817140L	140-pin Connector	
CN2	YW8817120L	120-pin Connector	
CN3,4	YW523400601	60-pin Connector	
CN5,6	YW524120601	60-pin Connector	
TP1-14	YWRCT2125TPV	Test Point	
F203,204 ⚠	YWSSFC1R2AT4	Current Fuse	1.2A
SW1,2	YWCHS08B	Dip Switch	
SW201-203	YWS7051TA	Dip Switch	
M65	YWV2HA1206A3	Shield Parts	
M66	YWV4RA0121A3	Lever	
M67	YWV7SA2083A4	Blank Label L	
M68	YWV7SA2084A4	Blank Label S	

I/F BOARD

REF. NO.	PART NO.	DESCRIPTION	
PCB6 (RTL)	YWJ100APKY1A	Printed Circuit Board Ass'y	
IC1,2	MC74HC541AF	IC	
IC3	MC74HC245AF	IC	
IC4	YW18CV8AV05A	IC	
IC5	MC74HC245AF	IC	
R1	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R2	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R3-5	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R6,7	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R9	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
Z1-9	EXBV8V101J	Block Resistor	100 ohms 1/32W
C1	YWT316B104MT	Ceramic	0.1 μF
C2	TAJC106M016	Ceramic	10 μF16V
C3	YWT316B104MT	Ceramic	0.1 μF
C4,5	TAJC106M016	Tantalum	10 μF 16V
C6	YWT316B104MT	Ceramic	0.1 μF
C8-20	YGM2C330J1HT	Ceramic	33 pF 50V
L1	YWNL32T100J	Coil	10 μH
CN1	YWF794P040LA	40-pin Connector	
CN4	YW937098041	98-pin Connector	

INPUT BOARD

REF. NO.	PART NO.	DESCRIPTION
PCB9 (RTL)	YWJ1000EKZ2A	Printed Circuit Board
IC1	YW16V8AV02A	IC
IC3	YWSC7SU04F	IC
IC4,5	MC74HC574AF	IC
IC7,8	MC74HC574AF	IC
IC9	YWM51953BFP	IC
IC11	MC74HC4053F	IC
IC12	YWM5M34050FP	IC
IC14	MC74HC125AF	IC
IC18	MC74HC175F	IC
IC19	MC74HC574AF	IC
IC20	YWSC7SU04F	IC
IC21	YWPD65636055	IC
IC22	YWNJM311M	IC
IC23	YWSC7S08F	IC
IC24	YWSC7SU04F	IC
IC25	YWM5M34050FP	IC
IC26	YWH8520CPA02	IC
IC201	NJM2904M	IC
IC202	YWM51271FP	IC
IC203	YWCXD1175AM	IC
IC204	YWSC7SU04F	IC
IC205	YWCXD2105AQ	IC
IC206	YWNJM2235M	IC
IC207	YWNJM2233BM	IC
IC210,211	MC74HC4053F	IC
IC212	YWSC7S08F	IC
IC213	YW78L05UATE2	IC
IC214	YWM51271FP	IC
IC215,216	YWSC7S08F	IC
IC217	YW78L05UATE2	IC
IC218	YWNJM3403AM	IC
IC219	NJM2904M	IC
IC220-222	YWNJM2235M	IC
IC223	YWCXA1211M	IC
IC224	YWM62352GP	IC
IC226	YWCXD1175AM	IC
IC227	MC74HC574AF	IC
IC229	YWCXD1175AM	IC
IC230	MC74HC574AF	IC
IC232	YW78L05UATE2	IC
IC233	YWNJM3403AM	IC
IC234	MC74HC4053F	IC
IC235	YWCXD1175A	IC
IC236,237	YWMC74AC157M	IC
IC239	YWMC74AC08M	IC

REF. NO.	PART NO.	DESCRIPTION	
IC240,241	MC74HC573AF	IC	
IC242,243	YWNJM7805FA	IC	
IC244	YWNJM2246M	IC	
IC245-247	YW78L05UATE2	IC	
Q1	MSB709-QRS	Transistor	
Q2	2SK198-PQR	FET	
Q3	MSB709-QRS	Transistor	
Q4,5	MSD601-QRS	Transistor	
Q6	MSB709-QRS	Transistor	
Q201	MSD601-QRS	Transistor	
Q202	MSB709-QRS	Transistor	
Q203-205	MSD601-QRS	Transistor	
Q206	MSB709-QRS	Transistor	
Q207-213	MSD601-QRS	Transistor	
Q214	MSB709-QRS	Transistor	
Q215	MSD601-QRS	Transistor	
Q216	MSB709-QRS	Transistor	
Q217	MSD601-QRS	Transistor	
Q218	MSB709-QRS	Transistor	
Q219	MSD601-QRS	Transistor	
Q220	MSB709-QRS	Transistor	
Q221	MSD601-QRS	Transistor	
Q222-225	MSB709-QRS	Transistor	
Q226-254	MSD601-QRS	Transistor	
Q255	MSB709-QRS	Transistor	
Q256-259	MSD601-QRS	Transistor	
Q260	2SD1328-RS	Transistor	
Q261,262	MSD601-QRS	Transistor	
Q263	MSB709-QRS	Transistor	
Q264-267	MSD601-QRS	Transistor	
Q268	2SD1328-RS	Transistor	
Q269,270	MSD601-QRS	Transistor	
Q271	MSB709-QRS	Transistor	
Q272-274	MSD601-QRS	Transistor	
Q275	MSB709-QRS	Transistor	
Q276	2SD1328-RS	Transistor	
Q277,281	MSD601-QRS	Transistor	
Q282-289	MSD601-QRS	Transistor	
Q290-294	MSB709-QRS	Transistor	
D1,2	1SV153T3P1	Diode	
D201	YWDAN212K97	Diode	
D202-214	SML210VT	Diode	
R8-11	ERJ6GEYJ101V	Carbon	100 ohms 1/10W
R13	ERJ6GEYJ103V	Carbon	10K ohms 1/10W
R14	ERJ6GEYJ472V	Carbon	4.7K ohms 1/10W
R15,17	ERJ6GEYJ103V	Carbon	10K ohms 1/10W
R18-21	ERJ6GEYJ101V	Carbon	100 ohms 1/10W
R24,27	ERJ6GEYJ101V	Carbon	100 ohms 1/10W
R28	ERJ6GEYJ101V	Carbon	100 ohms 1/10W
R29-32	ERJ6GEYJ103V	Carbon	10K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R33	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R34	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R35-37	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R38-41	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R42-44	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R45	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R46	ERJ6GEYJ121	Carbon	120 ohms 1/10W
R47	ERJ6GEYJ681	Carbon	680 ohms 1/10W
R48,49	ERJ6GEYJ330	Carbon	33 ohms 1/10W
R50,51	ERJ6GEYJ150	Carbon	15 ohms 1/10W
R52	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R53	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R54	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R55,56	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R58,59	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R60-63	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R64-66	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R67-69	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R70	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R71	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R72	ERJ6GEYJ752	Carbon	7.5K ohms 1/10W
R73	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R74	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R75	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R77,78	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R79	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R80	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R81,82	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R83,84	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R85	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R86	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R87	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R88	ERJ6GEYJ914	Carbon	910K ohms 1/10W
R89	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R90	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R91	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R92	ERJ6GEYJ473	Carbon	47K ohms 1/10W
R93	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R95	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R96,97	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R98	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R99,100	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R101	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R102	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R103-113	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R114,115	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R116,117	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R118	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R119	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R120	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R121	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R122	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R123,124	ERJ6GEYJ150	Carbon	15 ohms 1/10W
R125	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R126,127	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R128-131	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R132	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R201	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R202,203	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R204	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R205	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R206	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R207	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R208	YWR1220P221D	Metal	220 ohms 1/10W
R210	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R211	R1220P202D	Metal	2K ohms 1/10W
R212	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R213	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R214	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R215	ERJ14YJ470H	Carbon	47 ohms 1/10W
R216	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R217,218	R1220P182D	Metal	1.8K ohms 1/10W
R219	ERJ6GEYJ911	Carbon	910 ohms 1/10W
R220	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R221	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R222	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R223	YWR1220P122D	Metal	1.2K ohms 1/10W
R224	YWR1220P202D	Metal	2K ohms 1/10W
R225	YWR1220P182D	Metal	1.8K ohms 1/10W
R226	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R227	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R228	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R229,230	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R231	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R232	ERJ6GEYJ433	Carbon	43K ohms 1/10W
R233	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R234	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R235	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R236	ERJ6GEYJ754	Carbon	750K ohms 1/10W
R237	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R241	ERJ6GEYJ183	Carbon	18K ohms 1/10W
R242,243	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R244	ERJ6GEYJ754	Carbon	750K ohms 1/10W
R245	ERJ6GEYJ512	Carbon	5.1K ohms 1/10W
R246	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R247	ERJ6GEYJ620	Carbon	62 ohms 1/10W
R248	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R250	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R252	ERJ6GEYJ273	Carbon	27K ohms 1/10W
R253	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R254	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R255	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R256	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R258,259	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R261,264	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R265,266	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R268,270	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R271	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R273	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R274,275	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R276	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R278,279	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R280	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R281	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R282	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R283	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R284	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R285	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R286	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R287,288	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R289	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R290	ERJ6GEYJ331	Carbon	330 ohms 1/10W
R292,293	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R294	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R295	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R296-298	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R299	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R300,301	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R302,303	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R304,307	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R308-310	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R312	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R313	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R314	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R315	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R316	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R317	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R318	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R319	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R320	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R321	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R322	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R323	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R324	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R325	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R326	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R327	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R328	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R329	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R330	ERJ6GEYJ393	Carbon	39K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R331	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R332	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R333	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R334	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R335	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R336	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R337	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R338	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R339	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R340	ERJ6GEYJ753	Carbon	75K ohms 1/10W
R341	ERJ6GEYJ122	Carbon	1.2K ohms 1/10W
R342	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R343	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R344	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R345	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R346	ERJ6GEYJ561	Carbon	560 ohms 1/10W
R347	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R348	ERJ6GEYJ433	Carbon	43K ohms 1/10W
R349	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R350	ERJ14YJ470H	Carbon	47 ohms 1/4W
R351	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R352	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R353	ERJ6GEYJ754	Carbon	750K ohms 1/10W
R354,358	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R359	ERJ6GEYJ202	Carbon	2K ohms 1/10W
R360	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R361	ERJ6GEYJ754	Carbon	750K ohms 1/10W
R362	ERJ6GEYJ512	Carbon	5.1K ohms 1/10W
R363	ERJ6GEYJ620	Carbon	62 ohms 1/10W
R364	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R365	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R367	ERJ6GEYJ912	Carbon	9.1K ohms 1/10W
R369	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R370	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R371	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R372	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R373	R1220P681D	Metal	680 ohms 1/10W
R375	YWR1220P122D	Metal	1.2K ohms 1/10W
R376	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R377	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R378,379	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R380	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R381	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R382	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R383	YWR1220P361D	Metal	360 ohms 1/10W
R385	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R386	YWR1220P122D	Metal	1.2K ohms 1/10W
R387	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R388,389	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R390	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION
R391	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R393	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R394	ERJ6GEYJ472	Carbon 4.7K ohms 1/10W
R395	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R396	R1220P362D	Metal 3.6K ohms 1/10W
R399	R1220P512D	Metal 5.1K ohms 1/10W
R401-403	ERJ6GEYJ510	Carbon 51 ohms 1/10W
R409	YWR1220P122D	Metal 1.2K ohms 1/10W
R410	YWR1220P202D	Metal 2K ohms 1/10W
R411	YWR1220P182D	Metal 1.8K ohms 1/10W
R412	ERJ6GEYJ151	Carbon 150 ohms 1/10W
R413	ERJ6GEYJ511	Carbon 510 ohms 1/10W
R415	ERJ6GEYJ332	Carbon 3.3K ohms 1/10W
R416	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R417-419	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R420	YWR1220P751D	Metal 750 ohms 1/10W
R422,424	YWR1220P271D	Metal 270 ohms 1/10W
R426-428	ERJ6GEYJ474	Carbon 470K ohms 1/10W
R429-432	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R433	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R434	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R435	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R436	R1220P101D	Metal 100 ohms 1/10W
R438	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R439	R1220P202D	Metal 2K ohms 1/10W
R440	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R441	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R442	ERJ6GEYJ511	Carbon 510 ohms 1/10W
R443	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R444	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R445	ERJ6GEYJ821	Carbon 82 ohms 1/10W
R446-448	ERJ6GEYJ474	Carbon 470K ohms 1/10W
R449-452	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R453	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R454	ERJ6GEYJ101V	Carbon 100 ohms 1/10W
R455	ERJ6GEYJ102V	Carbon 1K ohms 1/10W
R456	YWR1220P101D	Metal 100 ohms 1/10W
R458	ERJ6GEYJ102V	Carbon 1K ohms 1/10W
R459	YWR1220P202D	Metal 2K ohms 1/10W
R460	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R461	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R462	ERJ6GEYJ511	Carbon 510 ohms 1/10W
R463	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R464	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R465	ERJ6GEYJ821	Carbon 820 ohms 1/10W
R466-468	ERJ6GEYJ474	Carbon 470K ohms 1/10W
R469-472	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R476	YWR1220P272D	Metal 2.7K ohms 1/10W
R477	YWR1220P102D	Metal 1K ohms 1/10W
R479	YWR1220P223D	Metal 22K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION
R480-482	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R483	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R484	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R485	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R486	YWR1220P221D	Metal 220 ohms 1/10W
R488	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R489	YWR1220P102D	Metal 1K ohms 1/10W
R490	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R491	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R492	ERJ6GEYJ511	Carbon 510 ohms 1/10W
R493	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R494	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R495	ERJ6GEYJ511	Carbon 510 ohms 1/10W
R496,498	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R499-506	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R510-543	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R544	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R545,546	R1220P121D	Metal 120 ohms 1/10W
R547-556	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R557	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R558	ERJ14YJ470H	Carbon 47 ohms 1/4W
R559	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R560	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R561	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R562	ERJ6GEYJ331	Carbon 330 ohms 1/10W
R563,564	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R565	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R566,567	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R568	ERJ6GEYJ912	Carbon 9.1K ohms 1/10W
R569	ERJ6GEYJ472	Carbon 4.7K ohms 1/10W
R570	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R571	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R572	ERJ6GEYJ471	Carbon 470 ohms 1/10W
R573,574	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R575	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R576,577	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R578-583	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R584	YWR1220P362D	Metal 3.6K ohms 1/10W
R587	YWR1220P512D	Metal 5.1K ohms 1/10W
R588,589	ERJ6GEYJ510	Carbon 51 ohms 1/10W
R594-610	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R611	ERJ6GEYJ201	Carbon 200 ohms 1/10W
R614,615	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R617	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R618-630	ERJ6GEYJ391	Carbon 390 ohms 1/10W
R631-634	L311J103J332	Carbon 3.3K ohms
R635	ERJ6GEYJ512V	Carbon 5.1K ohms 1/10W
R636	ERJ6GEYJ222V	Carbon 2.2K ohms 1/10W
R637	ERJ6GEYJ332V	Carbon 3.3K ohms 1/10W
R638	ERJ6GEYJ331	Carbon 330 ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R639	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R640	ERJ6GEYJ511	Carbon	510 ohms 1/10W
R641,642	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R643	YWR1220P162D	Metal	1.6K ohms 1/10W
R644	YWR1220P332D	Metal	3.3K ohms 1/10W
R645,646	YWR1220P103D	Metal	10K ohms 1/10W
R647	YWR1220P392D	Metal	3.9K ohms 1/10W
R648	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R649	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R650	YWR1220P102D	Metal	1K ohms 1/10W
R651-661	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R662,663	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R664	ERJ6GEYJ474	Carbon	470K ohms 1/10W
R665	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R666	ERJ14YJ100H	Carbon	10 ohms 1/10W
R667	ERJ14YJ330H	Carbon	33 ohms 1/10W
R670,671	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R672	ERJ6GEYJ470	Carbon	47 ohms 1/10W
R673	ERJ6GEYJ151	Carbon	150 ohms 1/10W
R678	ERJ6GEY0R00	Carbon	0 ohm 1/10W
VR201	EVM1DSW30BY2	Variable Resistor	330 ohms
VR202	EVM1DSW30B54	Variable Resistor	50K ohms
VR203	EVM1DSW30B24	Variable Resistor	20K ohms
VR204	EVM1DSW30B34	Variable Resistor	30K ohms
VR205	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR207,208	EVM1DSW30B54	Variable Resistor	50K ohms
VR209	EVM1DSW30B34	Variable Resistor	30K ohms
VR210	EVM1DSW30BE2	Variable Resistor	220 ohms
VR211	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR216-218	EVM1DSW30BY2	Variable Resistor	330 ohms
VR219	EVM1DSW30BE3	Variable Resistor	2.2K ohms
VR220	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR221	EVM1DSW30BY2	Variable Resistor	330 ohms
VR222,224	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR225	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
Z1-17	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z18,19	EXBV8V103J	Block Resistor	10K ohms 1/32W
Z20-25	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z26,27	EXBV8V103J	Block Resistor	10K ohms 1/32W
Z28-31	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z32-35	EXBV8V103J	Block Resistor	10K ohms 1/32W
TH1	L311J332G502	Thermistor	
C1	ECEV1CA101P	Electrolytic	100 μF 16V
C2,3	YWT316B104MT	Ceramic	0.1 μF
C4	ECEV1CA101P	Electrolytic	100 μF 16V
C5	ECEV1EA101P	Electrolytic	100 μF 25V
C6,7	YWT316B104MT	Ceramic	0.1 μF
C8	ECEV1EA101P	Electrolytic	100 μF 25V
C9-20	YGM2C220J1HT	Ceramic	22 pF 50V
C21	ECEV1CG470GP	Electrolytic	47 μF 16V

REF. NO.	PART NO.	DESCRIPTION	
C22,24	YWT316B104MT	Ceramic	0.1 μF
C25,26	YWT316B104MT	Ceramic	0.1 μF
C27,28	YGM2C220J1HT	Ceramic	22 pF 50V
C30-45	YGM2C220J1HT	Ceramic	22 pF 50V
C46,47	YWT316B104MT	Ceramic	0.1 μF
C48	ECEV1CG470GP	Electrolytic	47 μF 16V
C49,50	ECEV1AA221P	Electrolytic	220 μF 10V
C51	YWT316B224MT	Ceramic	0.22 μF
C52,53	YF400030CHDT	Ceramic	3 pF
C54-56	YWT316B104MT	Ceramic	0.1 μF
C57,58	ECEV1CG470GP	Electrolytic	47 μF 16V
C59	YWT316B104MT	Ceramic	0.1 μF
C60	ECEV1CG470GP	Electrolytic	47 μF 16V
C61	YWT316B104MT	Ceramic	0.1 μF
C62-85	YGM2C220J1HT	Ceramic	22 pF 50V
C86	ECEV1CG470GP	Electrolytic	47 μF 16V
C88	YWT316B104MT	Ceramic	0.1 μF
C89-91	YGM2C101J1HT	Ceramic	100 pF 50V
C92	YWT316B104MT	Ceramic	0.1 μF
C93	ECEV1CG470GP	Electrolytic	47 μF 16V
C94	ECEV1HG2R2GR	Electrolytic	2.2 μF 50V
C95	YF400332XKT	Ceramic	3300 pF
C96	YF400122XKT	Ceramic	1200 pF
C97	YF400200CHJT	Ceramic	20pF
C98-100	YWT316B104MT	Ceramic	0.1 μF
C101	YGM2C101J1HT	Ceramic	100 pF 50V
C102	ECEV1CA101P	Electrolytic	100 μF 16V
C103	YWT316B104MT	Ceramic	0.1 μF
C104	ECEV1CG100GR	Electrolytic	10 μF 16V
C105	YWT316B104MT	Ceramic	0.1 μF
C106-108	YGM2C220J1HT	Ceramic	22 pF 50V
C109-111	YWT316B104MT	Ceramic	0.1 μF
C112-118	YGM2C220J1HT	Ceramic	22 pF 50V
C201	ECEV1EA101P	Electrolytic	100 μF 25V
C202,203	YWT316B104MT	Ceramic	0.1 μF
C204	ECEV1EA101P	Electrolytic	100 μF 25V
C205	ECEV1CG470GP	Electrolytic	47 μF 16V
C206	ECEV1EG470P	Electrolytic	47 μF 25V
C207	ECEV1CG470GP	Electrolytic	47 μF 16V
C208	YGM2C101J1HT	Ceramic	100 pF 50V
C209	ECA1EM471	Electrolytic	470 μF 25V
C210	ECEV1CA101P	Electrolytic	100 μF 16V
C211	ECEV1EG4R7GR	Electrolytic	4.7 μF 25V
C212	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C213	ECEV1CA101P	Electrolytic	100 μF 16V
C214	ECEV1CG470GP	Electrolytic	47 μF 16V
C215,216	YF400333XKT	Ceramic	0.033 μF
C217	YWT316B104MT	Ceramic	0.1 μF
C218,219	ECEV0JG330GP	Electrolytic	33 μF 6.3V
C220	ECST1AX106ZR	Tantalum	10 μF 10V

REF. NO.	PART NO.	DESCRIPTION	
C221	YWT316B104MT	Ceramic	0.1 µF
C222	ECST1AX106ZR	Tantalum	10 µF 10V
C223	YWT316B104MT	Ceramic	0.1 µF
C224	YF400333XKT	Ceramic	0.033 µF
C225	YGM2C680J1HT	Ceramic	68 pF 50V
C226	YF400333XKT	Ceramic	0.033 µF
C227	YGM2B102K1HT	Ceramic	1000 pF 50V
C228	YF400181CHJT	Ceramic	180 pF
C229	ECEV1HG010GR	Electrolytic	1 µF 50V
C230	ECEV1HGR47GR	Electrolytic	0.47 µF 50V
C231	ECEV1HG010GR	Electrolytic	1 µF 50V
C232	YF400201CHJT	Ceramic	200 pF
C233,234	YF400473XKT	Ceramic	0.047 µF
C235	YGM2B102K1HT	Ceramic	1000 pF 50V
C236	YWT316B104MT	Ceramic	0.1 µF
C237	ECEV1EG4R7GR	Electrolytic	4.7 µF 25V
C238	YGM2B102K1HT	Ceramic	1000 pF 50V
C239	YWT316B104MT	Ceramic	0.1 µF
C240	ECEV1HG010GR	Electrolytic	1 µF 50V
C241	YWT316B104MT	ceramic	0.1 µF
C242	ECEV0JG470GP	Electrolytic	47 µF 6.3V
C243	YWT316B104MT	Ceramic	0.1 µF
C244	ECEV1HG010GR	Electrolytic	1 µF 50V
C246	YF400080CHDT	Ceramic	8 pF
C247	YWT316B104MT	Ceramic	0.1 µF
C248	YF400222XKT	Ceramic	2200 pF
C249	YF400050CHDT	Ceramic	5 pF
C250	YGM2C561J1HT	Ceramic	560 pF 50V
C251	TAJC106M016	Tantalum	10 µF 16V
C252	YWT316B104MT	Ceramic	0.1 µF
C253	TAJC106M016R	Tantalum	10 µF 16V
C254,255	YWT316B104MT	Ceramic	0.1 µF
C256	YGM2C070D1HT	Ceramic	7 pF 50V
C257	YGM2C180J1HT	Ceramic	18 pF 50V
C258	YGM2B102K1HT	Ceramic	1000 pF 50V
C259	YWT316B104MT	Ceramic	0.1 µF
C260,261	ECST1AX106ZR	Tantalum	10 µF 10V
C262-271	YWT316B104MT	Ceramic	0.1 µF
C272,273	ECST1AX106ZR	Tantalum	10 µF 10V
C274	YWT316B104MT	Ceramic	0.1 µF
C275	ECEV1CA101P	Electrolytic	100 µF 16V
C276,277	ECEV1CG470GP	Electrolytic	47 µF 16V
C278-280	ECEV1CG100NP	Electrolytic	10 µF 16V
C281,282	YF400103XKT	Ceramic	0.01 µF
C283	YWT316B104MT	Ceramic	0.1 µF
C284	ECST1AX106ZR	Tantalum	10 µF 10V
C285	YWT316B104MT	Ceramic	0.1 µF
C286	ECST1AX106ZR	Tantalum	10 µF 10V
C287,288	ECEV1CG470GP	Electrolytic	47 µF 16V
C293,294	ECEV1CA101P	Electrolytic	100 µF 16V

REF. NO.	PART NO.	DESCRIPTION	
C295	YWT316B104MT	Ceramic	0.1 µF
C296-298	ECEV1CA101P	Electrolytic	100 µF 16V
C299,300	YF400103XKT	Ceramic	0.01 µF
C301-304	ECEV1CA101P	Electrolytic	100 µF 16V
C305	YGM2C220J1HT	Ceramic	22 pF 50V
C306	YF400103XKT	Ceramic	0.01 µF
C307	YWT316B104MT	Ceramic	0.1 µF
C308	YGM2C101J1HT	Ceramic	100 pF 50V
C309,310	ECEV1HG010GR	Electrolytic	1 µF 50V
C311	ECEV1HGR47GR	Electrolytic	0.47 µF 50V
C312,313	YF400473XKT	Ceramic	0.047 µF
C314	YGM2B102K1HT	Ceramic	1000 pF 50V
C315	ECST1ED106ZR	Electrolytic	10 µF 25V
C316,317	YWT316B104MT	Ceramic	0.1 µF
C318	ECST1ED106ZR	Electrolytic	10 µF 25V
C319	YWT316B104MT	Ceramic	0.1 µF
C320	YF400102CHJT	Ceramic	1000 pF
C321	YWT316B104MT	Ceramic	0.1 µF
C322	ECEV1EG4R7GR	Electrolytic	4.7 µF 25V
C323	YGM2B102K1HT	Ceramic	1000 pF 50V
C324	YWT316B104MT	Ceramic	0.1 µF
C325	ECEV1HG010GR	Electrolytic	1 µF 50V
C326	YWT316B104MT	Ceramic	0.1 µF
C327	ECEV0JG470GP	Electrolytic	47 µF 6.3V
C328	YWT316B104MT	Ceramic	0.1 µF
C329	ECEV1HG010GR	Electrolytic	1 µF 50
C331	YF400080CHDT	Ceramic	8 pF
C332	YWT316B104MT	Ceramic	0.1 µF
C333	YF400050CHDT	Ceramic	5 pF
C334	YGM2C561J1HT	Ceramic	560 pF 50V
C335	YGM2B102K1HT	Ceramic	1000 pF 50V
C337	ECEV1CA101P	Electrolytic	100 µF 16V
C338	ECEV1CG470GP	Electrolytic	47 µF 16V
C339	ECEV1CA101P	Electrolytic	100 µF 16V
C340	ECA1EM471	Electrolytic	470 µF 25V
C341	YF400241CHJT	Ceramic	240 pF
C342	YWT316B104MT	Ceramic	0.1 µF
C343	YGM2C220J1HT	Ceramic	22 pF 50V
C344	ECEV1CG470GP	Electrolytic	47 µF 16V
C345	ECEV1CA101P	Electrolytic	100 µF 16V
C346	ECEV1CG470GP	Electrolytic	47 µF 16V
C347	ECST1ED106ZR	Electrolytic	10 µF 25V
C348,349	YWT316B104MT	Ceramic	0.1 µF
C350	ECST1ED106ZR	Tantalum	10 µF 25V
C351	ECEV1CG470GP	Electrolytic	47 µF 16V
C352	ECA1EM471	Electrolytic	470 µF 25V
C353,354	YF400103XKT	Ceramic	0.01 µF
C355	YWT316B104MT	Ceramic	0.1 µF
C357	YF400103XKT	Ceramic	0.01 µF
C359,360	YF400333XKT	Ceramic	0.033 µF

REF. NO.	PART NO.	DESCRIPTION	
C361	ECEV1CA101P	Electrolytic	100 μF 16V
C362	YWT316B104MT	Ceramic	0.1 μF
C363,364	ECEV0JG330GP	Electrolytic	33 μF 6.3V
C365-267	ECEV1CG100NP	Electrolytic	10 μF 16V
C368	YWT316B104MT	Ceramic	0.1 μF
C369	ECEV1CG470GP	Electrolytic	47 μF 16V
C371	ECEV1CA101P	Electrolytic	100 μF 16V
C372	YGM2C330J1HT	Ceramic	33 pF 50V
C373	ECST1VX225ZR	Tantalum	2.2 μF 35V
C374	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C375	YGM2B102K1HT	Ceramic	1000 pF 50V
C376-378	ECEV1CG100NP	Electrolytic	10 μF 16V
C379	YWT316B104MT	Ceramic	0.1 μF
C380	ECEV1CG470GP	Electrolytic	47 μF 16V
C382	ECEV1CA101P	Electrolytic	100 μF 16V
C383	YGM2C330J1HT	Ceramic	33 pF 50V
C384	ECST1VX225ZR	Tantalum	2.2 μF 35V
C385	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C386	YGM2B102K1HT	Ceramic	1000 pF 50V
C387-389	ECEV1CG100NP	Electrolytic	10 μF 16V
C390	YWT316B104MT	Ceramic	0.1 μF
C391	ECEV0JAN470P	Electrolytic	47 μF 6.3V
C393	ECEV1CG470GP	Electrolytic	47 μF 16V
C394	YWT316B104MT	Ceramic	0.1 μF
C395	YGM2C330J1HT	Ceramic	33 pF 50V
C396	ECEV1AA330P	Electrolytic	33 μF 10V
C397-405	YGM2C330J1HT	Ceramic	33 pF 50V
C411	YGM2C680J1HT	Ceramic	68 pF 50V
C412	ECEV1CA101P	Electrolytic	100 μF 16V
C413	YGM2C680J1HT	Ceramic	68 pF 50V
C414	ECST1VX105ZR	Tantalum	1 μF 35V
C415	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C416	YGM2B102K1HT	Ceramic	1000 pF 50V
C418	ECST1AX106ZR	Tantalum	10 μF 10V
C419	YWT316B104MT	Ceramic	0.1 μF
C420	ECST1AX106ZR	Tantalum	10 μF 10V
C421	YWT316B104MT	Ceramic	0.1 μF
C422	YF400333XKT	Ceramic	0.033 μF
C423	YGM2C101J1HT	Ceramic	100 pF 50V
C424	YF400333XKT	Ceramic	0.033 μF
C425	ECEV1CG100GR	Electrolytic	10 μF 16V
C426	YWT316B104MT	Ceramic	0.1 μF
C427-434	YGM2C220J1HT	Ceramic	22 pF 50V
C440	ECST1AX106ZR	Tantalum	10 μF 10V
C441	YWT316B104MT	Ceramic	0.1 μF
C442	ECST1AX106ZR	Tantalum	10 μF 10V
C443	YWT316B104MT	Ceramic	0.1 μF
C444	YF400333XKT	Ceramic	0.033 μF
C445	YGM2C101J1HT	Ceramic	100 pF 50V
C446	YF400333XKT	Ceramic	0.033 μF
C447	YWT316B104MT	Ceramic	0.1 μF
C448-459	YGM2C220J1HT	Ceramic	22 pF 50V
C464	YWT316B104MT	Ceramic	0.1 μF
C465	ECEV1CG470GP	Electrolytic	47 μF 16V
C466-469	ECEV1CA101P	Electrolytic	100 μF 16V
C472,473	YWT316B104MT	Ceramic	0.1 μF
C474	ECEV1CG470GP	Electrolytic	47 μF 16V
C475	ECEV1EA101P	Electrolytic	100 μF 25V
C476	YGM2C330J1HT	Ceramic	33 pF 50V
C477	ECEV1CA101P	Electrolytic	100 μF 16V
C478	ECEV1CG470GP	Electrolytic	47 μF 16V
C479	YGM2C560J1HT	Ceramic	56 pF 50V
C480	ECEV1CA101P	Electrolytic	100 μF 16V
C481,482	YF400103XKT	Ceramic	0.01 μF
C483,485	YWT316B104MT	Ceramic	0.1 μF
C486	ECST1AX106ZR	Tantalum	10 μF 10V
C487	YWT316B104MT	Ceramic	0.1 μF
C488	ECST1AX106ZR	Tantalum	10 μF 10V
C489	YWT316B104MT	Ceramic	0.1 μF
C490	YF400333XKT	Ceramic	0.033 μF
C491	YGM2C101J1HT	Ceramic	10 pF 50V
C492	YF400333XKT	Ceramic	0.033 μF
C493-498	YWT316B104MT	Ceramic	0.1 μF
C499	YGM2C330J1HT	Ceramic	33 pF 50V
C500	ECEV1CG470GP	Electrolytic	47 μF 16V
C501,502	YWT316B104MT	Ceramic	0.1 μF
C503,504	ECEV1CG470GP	Electrolytic	47 μF 16V
C505,506	YWT316B104MT	Ceramic	0.1 μF
C507	ECEV1CG470GP	Electrolytic	47 μF 16V
C508,509	YGM2C180J1HT	Ceramic	18 pF 50V
C510	YGM2C330J1HT	Ceramic	33 pF 50V
C511	YGM2C270J1HT	Ceramic	27 pF 50V
C512	YF400050CHDT	Ceramic	5 pF
C513	ECST1ED106ZR	Tantalum	10 μF 10V
C514	YWT316B104MT	Ceramic	0.1 μF
C515,516	ECEV0JAN470P	Electrolytic	47 μF 6.3V
C517-521	YWT316B104MT	Ceramic	0.1 μF
C522	TAJD336M010	Tantalum	33 μF 10V
C523	ECST1ED106ZR	Tantalum	10 μF 25V
C524,525	ECST1AX106ZR	Tantalum	10 μF 10V
C526	YWT316B104MT	Ceramic	0.1 μF
C527	ECST1ED106ZR	Tantalum	10 μF 25V
C528,529	YWT316B104MT	Ceramic	0.1 μF
C530	ECST1ED106ZR	tantalum	10 μF 25V
C531	TAJD336M016R	Tantalum	33 μF 16V
C532	YF400391CHJT	Ceramic	390 pF
C533,534	TAJC106M016	Tantalum	10 μF 16V
CT201,202	TZBX4Z6AAT	Trimmer Capacitor	6 pF
CF201	YWCY4W057	Filter	
CF202	YWCY4W058	Filter	

REF. NO.	PART NO.	DESCRIPTION
CF203	YWCY4W057	Filter
CF204	YWCY4W058	Filter
CF205	YW2570JPS093	Filter
CF206	YWCY4W057	Filter
CF207	YWCY4W058	Filter
CF208	YW2570JPS093	Filter
CF209,210	YWCY4T058	Filter
CF211	YW2567JPS026	Filter
CF212	YW2570JPS057	Filter
L1,2	YWCD75100KC	Coil
L3-9	ELJFA1R0KF	Coil 1 µH
L10	YW5115JPS063	Coil
L201	YWCD75100KC	Coil
L202-204	ELJFA1R0KF	Coil 1 µH
L205	ELJFA8R2KF	Coil 8.2 µH
L206	ELJFA180KF	Coil 18 µH
L207	ELJFA6R8KF	Coil 6.8 µH
L208,L210	ELJFA1R0KF	Coil 1 µH
L212,L213	ELJFA1R0KF	Coil 1 µH
L214	ELJFA101KF	Coil 100 µH
L215-217	ELJFA1R0KF	Coil 1 µH
L219-225	ELJFA1R0KF	Coil 1 µH
L226	ELJFA330KF	Coil 33 µH
L227	ELJFA470KF	Coil 47 µH
L228	ELJFA1R0KF	Coil 1 µH
L229,230	ELJFA101KF	Coil 100 µH
L231,232	ELJFA101KF	Coil 100 µH
X1	YWCSACS1966T	Crystal Oscillator
X201,202	YWDX14R318	Crystal Oscillator
SF1,2 ⚠	YWSSFC1R2AT4	Current Fuse 1.2A
SF201 ⚠	YWSSFC1R2AT4	Current Fuse 1.2A
CN1	YW8817140L	140-pin Connector
CN2	YW8817120L	120-pin Connector
CN10	YWPCC08068	Socket
TP1	YWRCT2125TPV	Test Point
TP201-213	YWRCT2125TPV	Test Point
TP214-225	YWRCT2125TPV	Test point
M65	YWV2HA1206A3	Shield Parts
M66	YWV4RA0121A3	Lever
M67	YWV7SA2083A4	Blank Label L
M68	YWV7SA2084A4	Blank Label S

REF. NO.	PART NO.	DESCRIPTION
	CG BOARD	
PCB10 (RTL)	YWJ1000EKZ5A	Printed Circuit Board Ass'y
IC2,3	YWH534253BJ8	IC
IC4	YWH538123BJ8	IC
IC6,7	YWH534253BJ8	IC
IC8	YWH538123BJ8	IC
IC9,10	YWH534253BJ8	IC
IC11	YWH538123BJ8	IC
IC12,13	YWH534253BJ8	IC
IC14	YWH538123BJ8	IC
IC15,16	YWH534253BJ8	IC
IC17	YWH538123BJ8	IC
IC18,19	YWH534253BJ8	IC
IC20	YWH538123BJ8	IC
IC21	YWMC74AC574M	IC
IC22	MC74HC573AF	IC
IC23	YWCY7C18515V	IC
IC24	MC74HC573AF	IC
IC25	MC74AC574M	IC
IC26	MC74HC573AF	IC
IC27	YWCY7C18515V	IC
IC28	MC74HC573AF	IC
IC29	MC74AC574M	IC
IC30	MC74HC573AF	IC
IC31	YWCY7C18515V	IC
IC32	MC74HC573AF	IC
IC33	YWSC7SU04F	IC
IC34	MC74HC574A	IC
IC35-42	UPD485505G25	IC
IC43	PD65644040	IC
IC44	YWM51951AMLW	IC
IC45	YWMC74AC32M	IC
IC46	MC74HC574AF	IC
IC47	YWMC74AC574M	IC
IC48,49	MC74HC574AF	IC
IC50	YWMC74AC574M	IC
IC51,52	MC74HC574AF	IC
IC53	YWMC74AC574M	IC
IC54,55	MC74HC574AF	IC
IC56	YWMC74AC574M	IC
IC57	MC74HC574AF	IC
IC59	YW18CV8AV20A	IC
IC60	YW18CV8AV19A	IC
IC61	YWSC7S08F	IC
IC62	YWTMS34020A3	IC
IC63,64	YWSC7SU04F	IC

REF. NO.	PART NO.	DESCRIPTION	
IC65-67	YWSC7S00FEL	IC	
IC68	YW18CV8AV09A	IC	
IC69	YW18CV8AV07A	IC	
IC70	YW18CV8AV10A	IC	
IC71	YW18CV8AV16A	IC	
IC72,73	YWMC74HC32AF	IC	
IC74-81	YW514800CLJ8	IC	
IC82	MC74HC573AF	IC	
IC83	YWMC74AC574M	IC	
IC84	MC74HC32AF	IC	
IC85	YWMC74AC08M	IC	
IC86	YWMC74AC32M	IC	
IC87	YWMC74AC08M	IC	
IC88	MC74HC04AF	IC	
IC89	MC74HC125AF	IC	
IC90	MC74HC574AF	IC	
IC91,92	YWH534253BJ8	IC	
IC93	YWH538123BJ8	IC	
IC94,95	YWH534253BJ8	IC	
IC96	YWH538123BJ8	IC	
IC97	YWMC74AC541M	IC	
IC98	YWMC74AC32M	IC	
IC99-102	YWMC74AC245M	IC	
IC103	YWMC74AC574M	IC	
IC104	YWMC74HC74AF	IC	
IC105	YWSC7S08F	IC	
IC106	YWMC74AC541M	IC	
IC107	YWMC74AC32M	IC	
R2-5	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R14-16	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R24,25	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R27-30	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R33	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R34-36	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R37	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R39,40	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R41	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R45,47	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R48-56	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R61-64	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R65-70	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R71	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R74-77	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R80-82	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R83	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R85,87	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R88-91	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R95,96	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R98	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R100	ERJ6GEY0R00	Carbon	0 ohm 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R102	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R103-105	ERJ6GEYJ121	Carbon	120 ohms 1/10W
R106,108	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R110-113	ERJ6GEYJ560	Carbon	56 ohms 1/10W
X1	YWCSTCS32MX	Crystal Oscillator	
Z13-16	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z17,18	EXBV8V103J	Block Resistor	10K ohms 1/32W
Z19-Z26	EXBV8V101J	Block Resisto	100 ohms 1/32W
Z27	EXBV8V560J	Block Resistor	56 ohms 1/32W
Z28	EXBV8V560J	Block Resistor	56 ohms 1/32W
Z29	EXBV8V560J	Block Resistor	56 ohms 1/32W
Z30	EXBV8V560J	Block Resistor	56 ohms 1/32W
Z31-49	EXBV8V101J	Block Resistor	100 ohms 1/32W
Z56-73	EXBV8V101J	Block Resistor	100 ohms 1/32W
C3-14	TAJC106M016	Tantalum	10µF 16V
C16	TAJC106M016	Tantalum	10µF 16V
C17	YWT316B104MT	Ceramic	0.1 µF
C18	TAJC106M016	Tantalum	10µF 16V
C19	YWT316B104MT	Ceramic	0.1 µF
C21	TAJC106M016	Tantalum	10µF 16V
C22	YWT316B104MT	Ceramic	0.1 µF
C23	TAJC106M016	Electrolytic	10µF 16V
C24	YWT316B104MT	Ceramic	0.1 µF
C25	TAJC106M016	Electrolytic	10µF 16V
C26	YWT316B104MT	Ceramic	0.1 µF
C27	TAJC106M016	Tantalum	10µF 16V
C28	YWT316B104MT	Ceramic	0.1 µF
C29-33	TAJC106M016	Tantalum	10µF 16V
C34,35	ECST1CD226ZR	Tantalum	22µF 16V
C36	TAJC106M016	Tantalum	10µF 16V
C37-44	YWT316B104MT	Ceramic	0.1 µF
C45-47	TAJC106M016	Tantalum	10µF 16V
C48-51	YWT316B104MT	Ceramic	0.1 µF
C52,53	ECST1CD226ZR	Tantalum	22 µF 16V
C54	YWT316B104MT	Ceramic	0.1 µF
C55-65	TAJC106M016R	Tantalum	10 µF 16V
C66,67	YWT316B104MT	Ceramic	0.1 µF
C68-70	ECEV0JG101GP	Electrolytic	100 µF 6.3V
C75-79	TAJC106M016	Tantalum	10 µF 16V
C84	YWT316B104MT	Ceramic	0.1 µF
C85-88	TAJC106M016	Tantalum	10 µF 16V
C89,90	YWT316B104MT	Ceramic	0.1 µF
C91	ECST1CD226ZR	Tantalum	22 µF 16V
C92	YF400181CHJT	Ceramic	180 pF
C93	ECST1CD226ZR	Tantalum	22µF16V
C94-101	YGM2C330J1HT	33 pF 50V	
C102	ECST1CD226ZR	Tantalum	22 µF 16V
C103-106	YWT316B104MT	Ceramic	0.1 µF
C123	YGM2C330J1HT	33 pF 50V	
L1-10	ELJFA100KF	Coil	10 µH

REF. NO.	PART NO.	DESCRIPTION
L11,12	YWCD75100KC	Coil
L13-15	ELJFA100KF	Coil 10 µH
L16,17	YWCD75100KC	Coil
CN1	YW8817140L	140-pin Connector
CN2	YW8817120L	120-pin Connector
SF1,2 ⚠	YWSSFC1R2AT4	Current Fuse 1.2A
TP1-25	YWRCT2125TPV	Test Point
M65	YWV2HA1206A3	Shield Parts
M66	YWV4RA0121A3	Lever
M67	YWV7SA2083A4	Blank Label L
M68	YWV7SA2084A4	Blank Label S

REF. NO.	PART NO.	DESCRIPTION
	REAR-2 BOARD	
PCB1 (RTL)	YWJ1000EKB1A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
	REAR-3 BOARD	
PCB2 (RTL)	YWJ1000EKC1A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
	REAR-1 BOARD	
PCB3 (RTL)	YWJ1000EKZAA	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
	LED BOARD	
PCB5 (RTL)	YWJ100APKY2A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
	POWER SWITCH BOARD	
PCB7 (RTL)	YWJ1000PKY3A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
	AUDIO BOARD	
PCB8 (RTL)	YWJ1200EKZ1A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-PB1003E.**

REF. NO.	PART NO.	DESCRIPTION
		JPEG/SCSI BOARD (JPEG SECTION)
PCB11 (RTL)	YWJ1200EKZ6A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-PB1003E.**
		JPEG/SCSI BOARD (SCSI SECTION)
PCB12 (RTL)	YWJ1200EKZ7A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-PB1003E.**
		MOTHER BOARD
PCB13 (RTL)	YWJ1000EKZ8A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
		POWER BOARD
PCB14 (RTL)	YWJ1000EKZ9A	Printed Circuit Board Ass'y **Refer to Replacement Parts List for WJ-MX1000K.**
		CPU BOARD
PCB15 (RTL)	YWLP5ACER	Printed Circuit Board Ass'y
IC1	YWA8052166	IC Pentium (166 MHz)
PCB16 (RTL)	HB56D436BR7C	SIMM
	Note:	This Board is supplied as PCB Ass'y only.
		JOG PAD
		Refer to Replacement Parts List for WJ-MX1000K.

REF. NO.	PART NO.	DESCRIPTION
		ACCESSORY PARTS / PACKAGING PARTS
BI101	YWCAJ0G9P	9-pin Connector Cable
BI102	YWCAKB6P	6-pin Connector Cable
E103 ⚠	YWKP4819CE25	AC Power Cord for WJ-MX1200K/G
	YWKP610KS31A	AC Power Cord for WJ-MX1200K/B
M130	YWV9CF3372AN	Packaging Assy for Main Kit
M131	YWT80X90X1	Polyethylene Bag for Main Kit
M135	YW7J1A022A	Software Licence
M136 ⚠	YW7J1A033A	Operating Instructions
M137	YW7J1A060A	Software Licence for Microsoft
M138	YW7J1A034A	Software Licence
M139	XZB26X40C05	Polyethylene Bag for WJ-MX1200K/B
	YWPE26X40C05	Polyethylene Bag for WJ-MX1200K/G
M140	YWV9CA2479AN	Packaging Assy for WJ-MX1200K

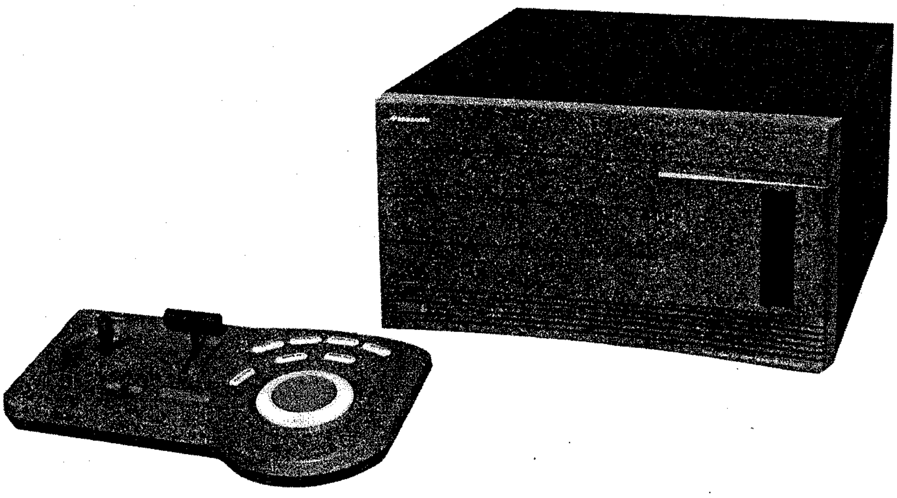
ORDER NO. AVS9511066C8

Service Manual

Nonlinear AV Workstation
Main Kit

WJ-MX1000K

V20639



SPECIFICATIONS

Video

Video Input		
Input Connectors	2 sources (selectable from Composite. Y/C, Y/PB/PR)	
Composite:	1.0 Vp-p/75 ohms (BNC)	
Y /C:	Y:	1.0Vp-p/75 ohms
	C:	0.3 Vp-p/75 ohms (Y/C terminal)
Component:	Y:	1.0Vp-p/75 ohms (BNC)
	PB/PR:	0.525Vp-p or 0.7Vp-p, 75 ohms (BNC) (75% Colour Bar)
Video Output		
Output Connector	2 outputs (simultaneously from Composite, Y/C, Y/PB/PR)	
Composite:	1.0Vp-p/75 ohms	
Y/C:	Y:	1.0Vp-p/75 ohms
	C:	0.3Vp-p/75 ohms (Y/C terminal)
Component:	Y:	1.0Vp-p/75 ohms (BNC)
	PB/PR:	0.525Vp-p or 0.7Vp-p, 75 ohms (BNC) (75% Colour Bar)
Synchronization		
Gen-Lock Input	1.0Vp-p/75 ohms (BNC), with loop-through output (x1)	
ADV.REF output	Sync: 0.3Vp-p, 75 ohms	
	Burst: 0.3Vp-p, 75 ohms	
Audio Input		
Selectable from 4 sources		
Source 1/2	+4dBm, 600 ohms balanced (3-pin XLR connector)	
Source 1/2	–6dBs, 20 kohms, unbalanced (RCA pin jack)	
Audio Output		
4 outputs (simultaneous)		
Ch. 1/2	+4dBm, 47 ohms balanced (3-pin XLR connector)	
Ch. 1/2	–6dBs, 75 ohms, unbalanced (RCA pin jack)	

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICEING TO QUALIFIED SERVICE PERSONNEL.

⚡ This symbol warns the user that uninsuland voltage within the unit may have suificient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

⚠ This symbol alerts the user that impotant literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be repleced with manufacture's specified parts to prevent shock, fire, or other hazards.
Do not modify the original design without permission of manufacture.

Other Inputs/Outputs	
LTC time code Input	x1 (BNC)
LTC time code output	x1 (BNC)
SCSI connector	x4 (Audio, Video 1, Video 2, Video 3,
SCSI-2 standard,	
	50-pin half pitch connector, bellows type)
VTR control connector :	RS422, 9 pin x2 (D-sub)
Jog Pad connector:	9 pin x1 (D-sub)
PC	
CPU :	i486DX2, 66MHz
OS :	MS-DOS Ver. 6.22, Windows Ver. 3.1
Main Memory :	16MB
Built-in Hard Disk Drive :	540MB (IDE) x1
Floppy Disk Drive :	1.44MB x1
Card Slot :	ISA x1 (supplied by Panasonic only)
SVGA connector :	15 pinx1 (D-Shell, female), 1024x768 dots, 256 colours, Scanning: 35kHz (horizontal), 86 Hz (vertical)
Parallel connector:	25 pin x1 (D-Shell, female)
Serial connector :	9 pin x2 (D-Shell, male)
Mouse :	6 pin x1 (Mini-Din, female)
Keyboard :	6 pin x1 (MIni-Din, female)
Video Performance	
S/N Ratio *:	55dB (Y/PB/PR), 53dB (Y/C), 50dB (Composite)
DG, DP *:	5%, 3°
Frequency Response *:	4.5MHz, +0dB, –3dB (Y/C, Y/PB/PR)
Sampling Frequency:	13.5MHz, 4:1:1, 8 bit component
Y/C Separation:	3 lines, digital logical comb filter
SC-H:	±30°
Compression:	MOTION JPEG
Compression Quality:	Q6, Q8, Q11, Q19
Recording Time:	Approx. 6 min/GB (Q6) Approx. 8 min/GB (Q8) Approx. 11 min/GB (Q11) Approx. 19 min/GB (Q19)

Title Graphics	
Resolution:	640 x 480 dots Y, U, V, α, 8 bit component each
Font :	True type
Audio Performance	
S/N Ratio	More than 70dB (1kHz, XLR OUT)
Dynamic Range	More than 88dB
Total Harmonic Distortion	0.05% (1kHz)
Frequency Response	20kHz, +0, –3dB, 20Hz, +0, –3dB
Sampling Frequency	48kHz, 16 bit
Mixing	Stereo 4 channels
Effector	EQ, Reverberation
Recording Time	Approx. 86min/GB
Others	
EDL Output	CMX 3600 format
Graphic Conversion	TIFF file
General	
Power Supply	220-240V AC, 50Hz
Power Consumption	110W (with optional Video Board)
Ambient Operating Temperature	0°C - 35°C (32°F-95°F)
Ambient Operating Humidity	10% - 90%
Weight	Main unit: 21.5 kg (47.4 lbs) Jog pad: 1.2 kg (2.6 lbs)
Dimensions	See dimensional drawings

Weight and dimensions indicated above are approximate.
Specifications are subject to change without notice.
This product might be subject, to export control regulations.

* : Without Compression

CONTENTS

Major Operating Controls and Their Function 1

Connection 5

System Connection 7

Operating Procedures 11

Circuit Description

- IC Description 16

Adjustment Procedure 103

Location of Test Points and Adjusting Controls 110

Appearance of IC, Transistor and Diode 111

Chip Components 112

Block Diagram

- Input Board 114
- Audio Board 115
- CG Board 116
- Mixer Board (1/3) 117
- Mixer Board (2/3) 118
- Mixer Board (3/3) 119
- JPEG/SCSI-1 120
- JPEG/SCSI-2 Board (1/2) 121
- JPEG/SCSI-2 Board (2/2) 122

Schematic Diagram

- Mother Board 124
- Mixer Board (1/3) 125
- Mixer Board (2/3) 126
- Mixer Board (3/3) 127
- CG Board 130
- JPEG/SCSI-1 Board 131
- JPEG/SCSI-2 (1/2) Board 132
- JPEG/SCSI-2 (2/2) Board 133
- Input Board 136
- Audio Board 137
- Power Board 139
- I/F Board 141
- Rear-1 Board 143
- Rear-2 Board 145
- Rear-3 Board 147
- Main Board (Jog Pad) 149

Conductor View

- Mother Board 123
- Mixer Board 128
- CG Board 129
- JPEG/SCSI-1&2 Board 134
- Input Board 135
- Audio Board 138
- Power Board 140
- I/F Board 142
- Rear-1 Board 144
- Rear-2 Board 146
- Rear-3 Board 148
- Main Board(Jog Pad) 150

Exploded View

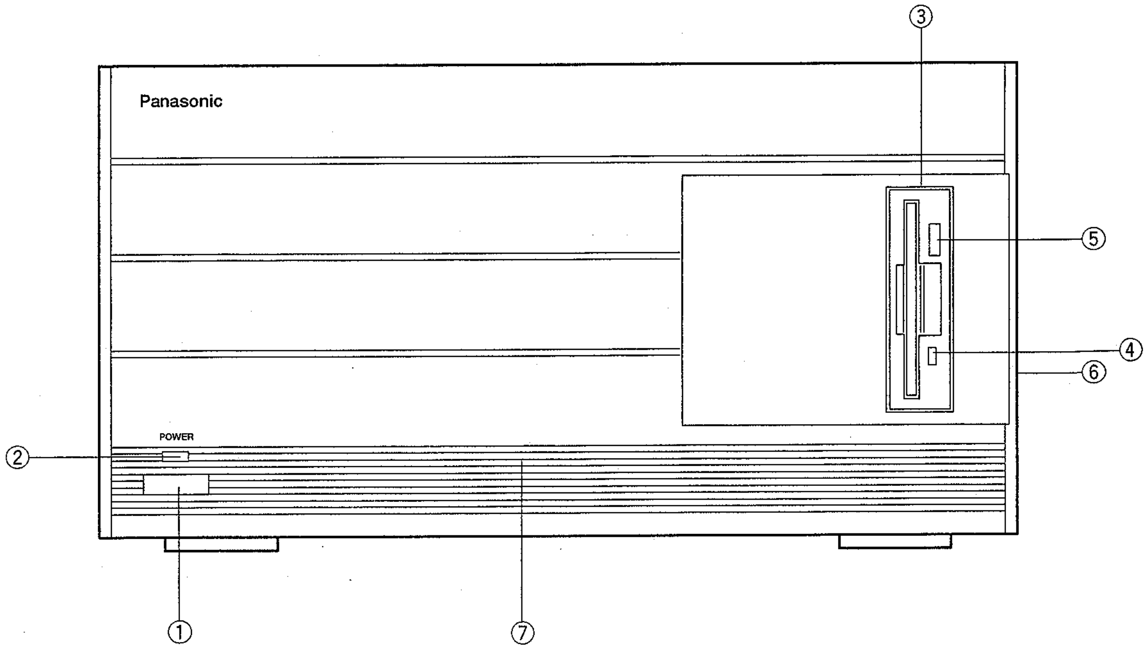
- WJ-MX1000K

  - Main Unit 151
  - Jog Pad 152
- WJ-MU1000E 153
- WJ-KB1000E 154

Replacement Parts List 155

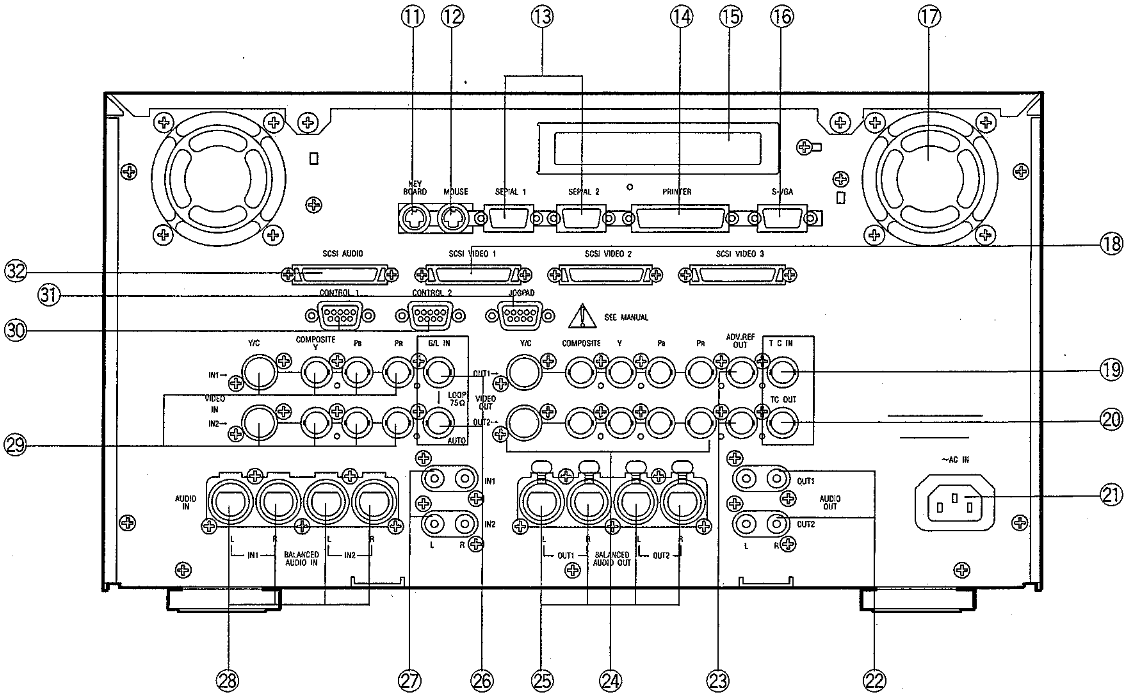
MAJOR OPERATING CONTRLS AND THEIR FUNCTIONS

■ FRONT PANEL



1. **Power On/Off Switch**
   Turns the power of this unit on and off.
   Notes :
   1. Be sure to turn on the power of this unit after turning on the Hard Disk Box.
   2. Do not turn off the power of this unit while operating Nonlinear AV Workstation System.
2. **Power Indicator (POWER)**
   Lights by turning on the power.
3. **3.5" Floppy Disk Drive**
4. **Floppy Disk Indicator**
   Lights during an access of the floppy disk.
5. **Eject Button**
   Ejects the Floppy Disk.
6. **Front Panel Remove Button**
   Removes the Front Panel.
7. **Front Panel**
   Caution: Do not interrupt the Vent Hole on this panel.

REAR PANEL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KEY BOARD
MOUSE
SERIAL 1
SERIAL 2
PRINTER
S-VGA
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3
CONTROL 1
CONTROL 2
JOGPAD
SEE MANUAL
Y/C
COMPOSITE Y
PB
PR
G/L IN
IN1
VIDEO IN
IN2
LOOP 75Ω
AUTO
OUT1
VIDEO OUT
OUT2
Y/C
COMPOSITE
Y
PB
PR
ADV.REF OUT
T C IN
TC OUT
AUDIO IN
L
R
IN1
BALANCED AUDIO IN
IN2
IN1
IN2
L
R
L
R
OUT1
BALANCED AUDIO OUT
OUT2
OUT1
AUDIO OUT
OUT2
L
R
~AC IN

11 **KEYBOARD Connector (KEY BOARD)**
Connects with the keyboard (locally purchase).
When the cable is too short to connect, use the Key Board Extention Cable (accessory).

12. **MOUSE Connector (MOUSE)**
Connects with the Mouse (locally purchase).
When the cable is too short to connect, use the Mouse Extention Cable (accessory).

13. **SERIAL1 / 2 Connectors (SERIAL 1/SERIAL 2)**
Connects with the equipment having RS-232C Interface Connector.

14. **PRINTER Connector (PRINTER)**
Connects with the printer.

15. **ISA Slot**
Refer to the qualified service personnel.

16. **S-VGA Connector (S-VGA)**
Connects with the computer display.
The applicable display is shown below.
Resolution: 1024 x 768
Horizontal Scanning Frequency: 35 kHz
Vertical Scanning Frequency: 86 Hz

17. **Fan**
Supplies steady forced air through intake and filter.

Note: The fans are article consumption, and need to replace periodically.

Operating Time	Operating Life
8-hour everyday use	6-year
12-hour everyday use	4-year
24-hour everyday use	2-year

18. **SCSI VIDEO Connectors (SCSI VIDEO 1-3)**
Connect with the SCSI Video Connector of the Hard Disk Box WJ-EB1000 via the optional SCSI Cable WJ-CA10SR3.

19. **TC(Time Code) IN Connector (TC IN)**
Connects with the VTR having the LTC time code signal output connector to keep the accuracy.

20. **TC(Time Code) OUT Connector (TC OUT)**
Connects with the VTR having the LTC time code signal input connector.
The signal supplied from this connector is not looped through.

21. **AC Inlet**
Connect the AC Power Cord (provided)

22. **AUDIO OUT 1 / 2Jacks (AUDIO OUT OUT1, OUT2 L/R)**
Supply the audio signals.

23. **ADV-REF OUT Connector (ADV-REF OUT)**
Supplies the Advance Reference Signal to the VTR having the time base corrector inside (or AUX video source).

24. **Video Output Connectors (VIDEO OUT1/OUT2 Y/C, COMPOSITE, Y, PB, PR)**
Supplies the video signal to the monitor or VTR.

25. **AUDIO OUT 1/2 Connectors (BALANCED AUDIO OUT, OUT1/OUT2)**
Supply the audio signals.

26. **G/L IN / AUTO Connectors (G/L, IN/AUTO)**
The gen-lock signal is supplied from these connectors (Be sure to terminate the video signal output from these connector equipment).
By connecting with the G/L AUTO Connector, the video signal is unterminated automatically.

Caution:
When gen-lock signal is supplied to the G/L connector during playback or record is being activated on the HDD, it may be happened to roll the video or hung up the selection.
Stop the playback or record, then make a connection to the G/L connector again.

27. **AUDIO IN 1/2 Jacks (IN1, IN2 L/R) (Unbalanced)**
Accepts the audio signal.
The audio signal supplied from these jacks can be saved in the Hard Disk Box.
When the audio signal is supplied to the L side only, a monaural audio signal is made.

28. **AUDIO IN 1/2 Connectors (BALANCED AUDIO IN IN1 L/R, IN2 L/R)**
Accepts the audio signal.
The audio signal supplied from these connectors can be saved in the Hard Disk Box.

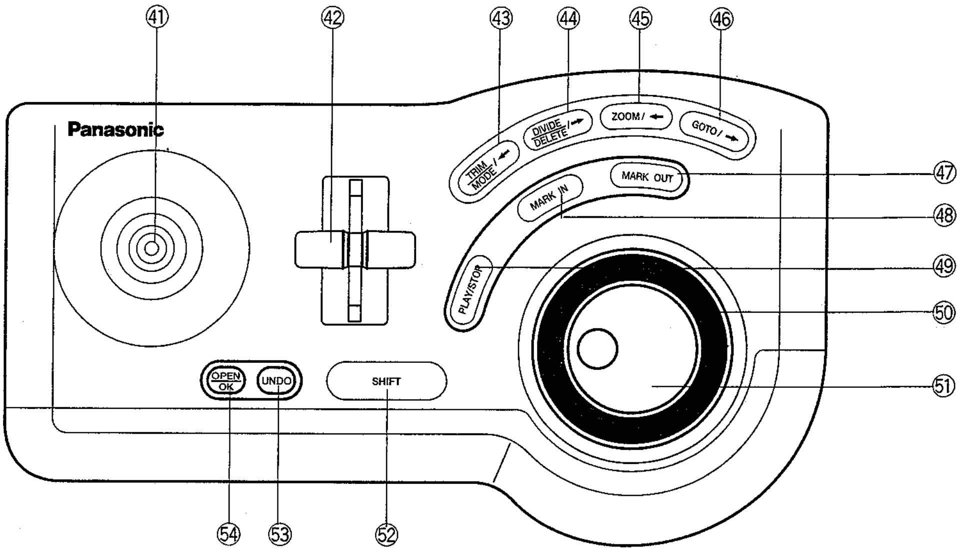
29. **Video 1/2 Input Connectors (VIDEO IN1/IN2 Y/C, COMPOSITE, Y, PB, PR)**
Supply the video signals to save into the Hard Disk Box.
Select the connector from the Composite, Y/C or Component according to the type of the video signal.
The selection of the Video 1/Video 2 is available on the PC monitor screen.
Note: The Y input of the component is a common use with the composite.

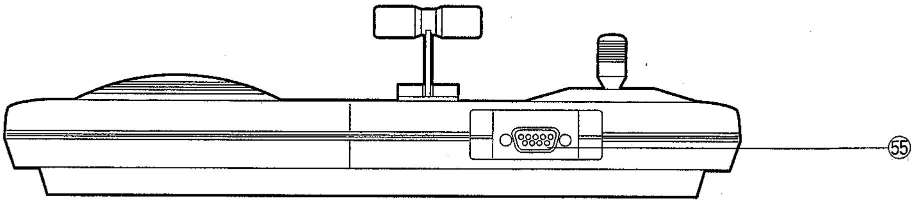
30. **CONTROL 1/2 Connectors (CONTROL 1 /CONTROL 2) (9-pin)**
Supply the control signal (for the recording or play back mode) to the equipment having RS-422 Interface Connector.
Be sure to supply the video signal of the VTR connected with the VIDEO IN 1 Connector to the CONTROL 1 and the VTR connected with the VIDEO IN 2 Connector to the CONTROL 2.

31. **JOGPAD Connector (JOGPAD)**
Connects with the Jogpad (provided).

32. **SCSI AUDIO Connector (SCSI AUDIO)**
Supplies the audio signal to the SCSI Audio Connector of the optional Hard Disk Box via the optional SCSI Cable WJ-CA10SR3.

■ JOG PAD





41. **Positioner**
Moves the selection cursor (when selection is confirmed).

42. **Wipe Lever Controls Key Size and Audio Level.**

43. **TRIM / MODE /**
Switches edit modes (Insert - Replace - Cover)
(SHIFT + TRIM/MODE) Turns Trim mode On/Off (during transition)

44. **DIVIDE / DELETE**
Deletes a clip.
(SHIFT + DIVIDE / DELETE) Divides a clip

45. **ZOOM /**
Zooms in the time line
(SHIFT + ZOOM) Zooms out the time line.

46. **GOTO /**
Jumps to the starting or editing mark
(SHIFT + GOTO) Jumps to the beginning or end of a sequence.

47. **MARK OUT**
Sets or cancels the ending mark.
(SHIFT + MARK OUT) Selects the grip of the OUT point.

48. **MARK IN**
Sets or cancels the starting mark.
(SHIFT + MARK IN) Selects the grip of the IN point.

49. **PLAY / STOP**
Plays back or stops.
(SHIFT + PLAY /STOP) Plays back between the starting and ending marks.

50. **Shuttle Ring**
Plays back video and audio forward (clockwise) or in reverse (counterclockwise), allowing you to vary the speed.

51. **Jog Dial**
Plays back video and audio forward (clockwise) or in reverse (counterclockwise) frame by frame.

52. **SHIFT**
Switches button functions.

53. **UNDO**
Cancels the immediately previous operation.

54. **OPEN / OK**
Opens the selected panel or selects a panel and closes the previous panel.

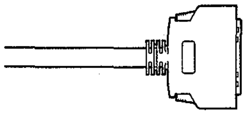
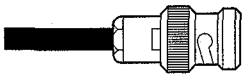
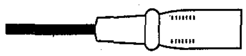
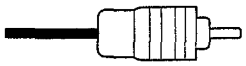
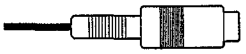
55. **Jog Pad Connector**
Connects with the Main Unit by using the Jog Pad Cable (accessory).

CONNECTION

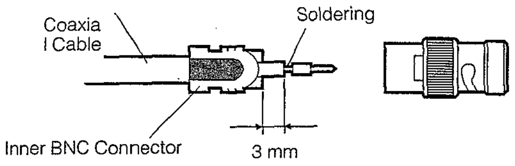
These connections should be made by qualified service personnel or system installers.

■ Cable Information

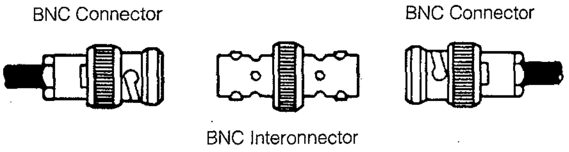
Necessary cables for this system are shown below.
SCSI Cable (WJ-CA10SR3) Connects with the HDD-BOX.
Coaxial Cable (with BNC Connector) Connects with the MⅡ VTR or Monitor.
2-conductor shielded cable (with XLR-3-12C Connector) Connects with the powered speaker), cassette tape recorder, CD player, S-VHS VTR.
S-VHS cable connects with the S-VHS VTR.

Cable	Use
SCSI Cable (WJ-CA10SR3) 	HDD-BOX Connection
Coaxial Cable With BNC Connector 	MⅡ Format VTR (Video)/Monitor Connection
2-conductor shielded Cable With XLR-3-12C Connector 	MⅡ Format VTR (Audio) Connection
RCA Pin-plug Cable **RCA W Pin-plug Cable** 	Power speaker Connection Cassette Tape Recorder/CD Player/S-VHS VTR (Audio) Connection
S-VIDEO Cable 	S-VHS VTR Connection

Coaxial Cable / BNC Connector

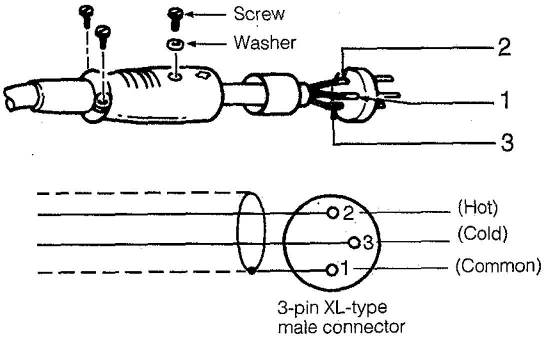

Coaxia
l Cable
Soldering
Inner BNC Connector
3 mm

Interconnection of BNC Coaxial Cable


BNC Connector
BNC Connector
BNC Interonnector

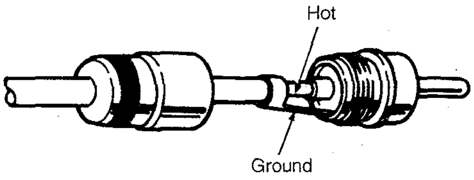
XLR-3-12C Connector

Connect the 2-conductor shielded wire as shown below.


Screw
Washer
2
1
3
2
3
1
(Hot)
(Cold)
(Common)
3-pin XL-type
male connector

RCA Pin-plug

Connect single-conductor shielded wire as shown below.



SYSTEM CONNECTION

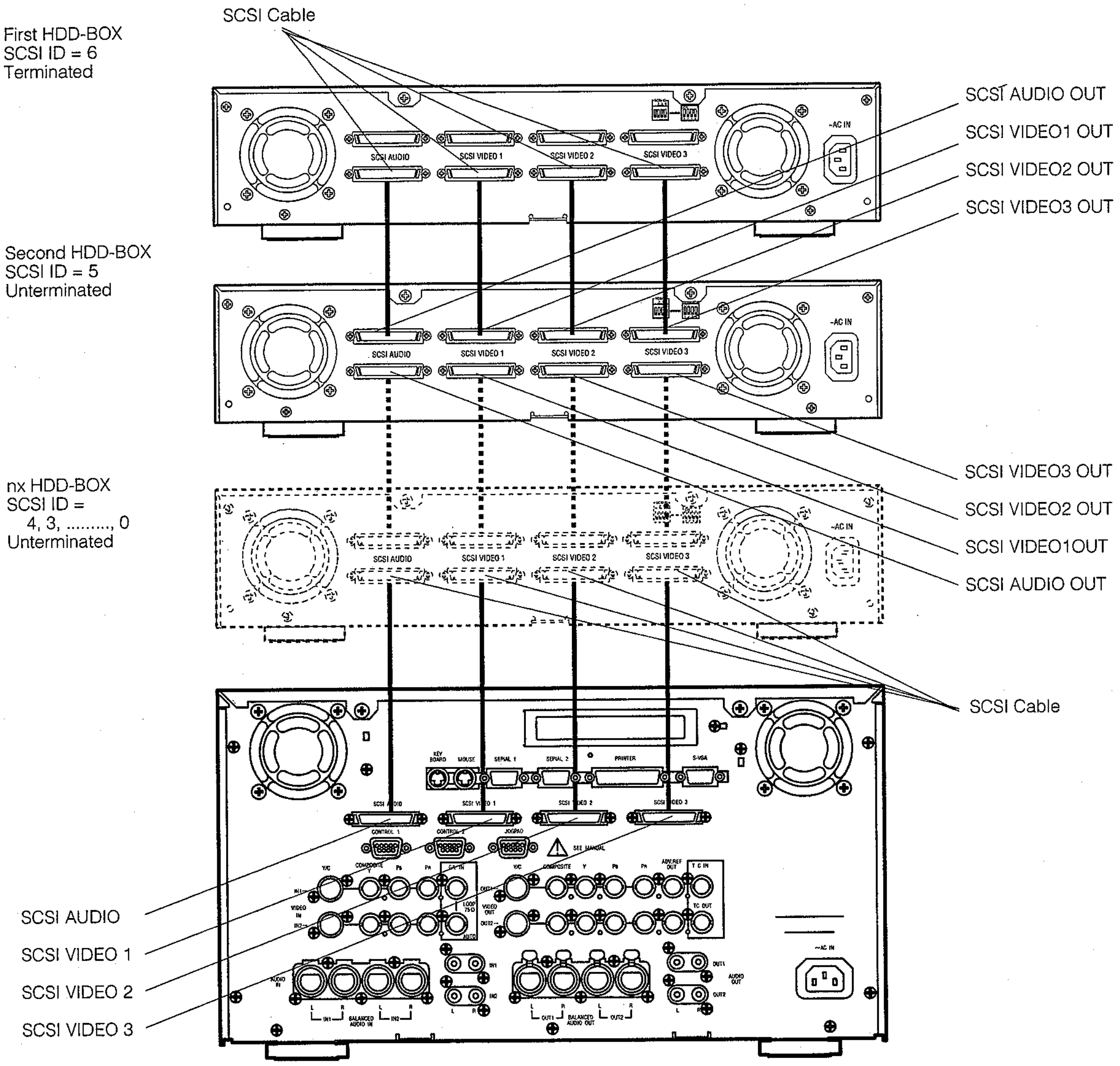
The following system connections should be made by qualified service personnel or system installers.

■ HDD-BOX Connection

Refer to the Operating Instructions of the WJ-EB1000 Hard Disk Box for the Hard Disk Box Installations.

Connect the SCSI VIDEO 1, 2 or/and 3 Connector(s) of this unit to the SCSI Input Connector(s) of the WJ-EB1000 by using the optional SCSI Cable WJ-CA10SR3.

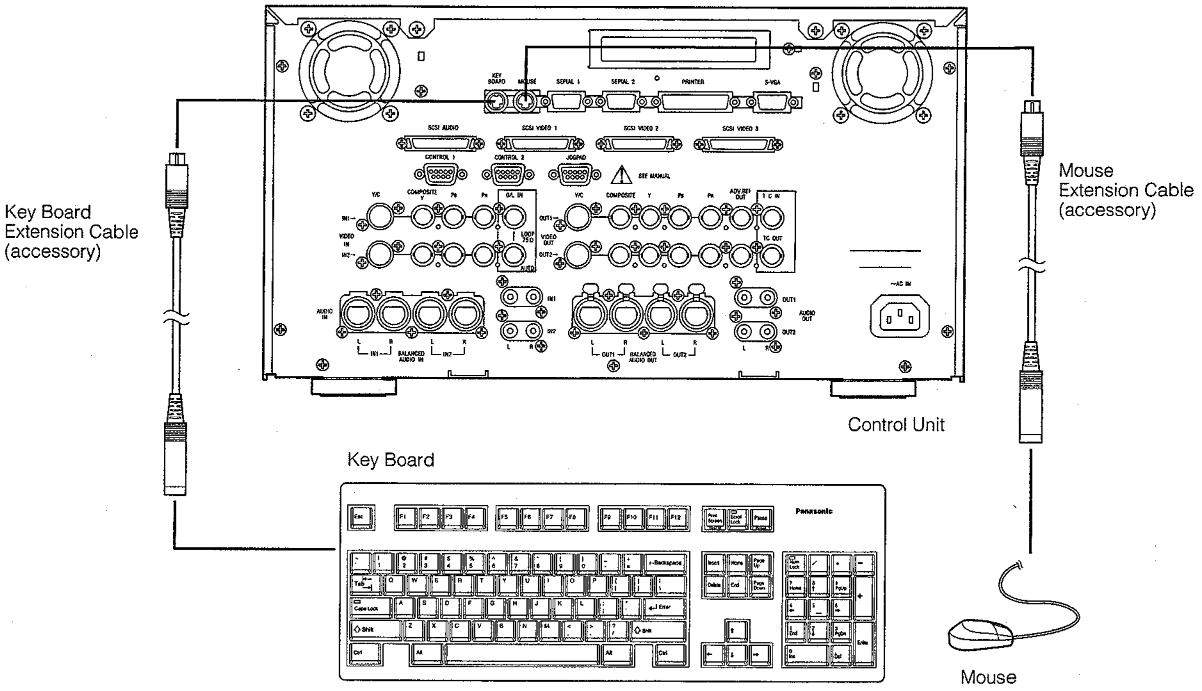
Note: The first WJ-EB1000 should be terminated and set ID=6.


SCSI Cable
First HDD-BOX
SCSI ID = 6
Terminated
SCSI AUDIO OUT
SCSI VIDEO1 OUT
SCSI VIDEO2 OUT
SCSI VIDEO3 OUT
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3
Second HDD-BOX
SCSI ID = 5
Unterminated
SCSI VIDEO3 OUT
SCSI VIDEO2 OUT
SCSI VIDEO1OUT
SCSI AUDIO OUT
nx HDD-BOX
SCSI ID =
4, 3, ..., 0
Unterminated
SCSI Cable
SCSI AUDIO
SCSI VIDEO 1
SCSI VIDEO 2
SCSI VIDEO 3

■ Key Board, Mouse and Jog Pad Connections

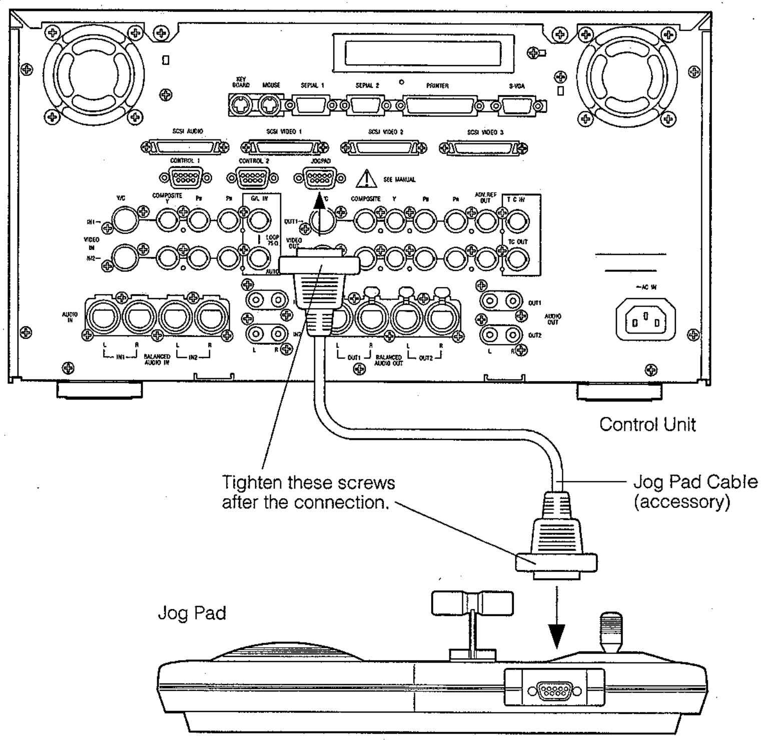
● Key Board and Mouse

Connect the KEY BOARD Connector of this unit to the Key Board.
Connect the MOUSE Connector of this unit to the Mouse.
Use the Key Board Extension Cable/Mouse Extension Cable (accessory) for the extension.


Key Board Extension Cable (accessory)
Mouse Extension Cable (accessory)
Control Unit
Key Board
Mouse

● Jog Pad Connection

Connect the JOGPAD Connector (31) of this unit to the Jog Pad.
After connecting, tighten the screws on the Jog Pad Cable (provided).

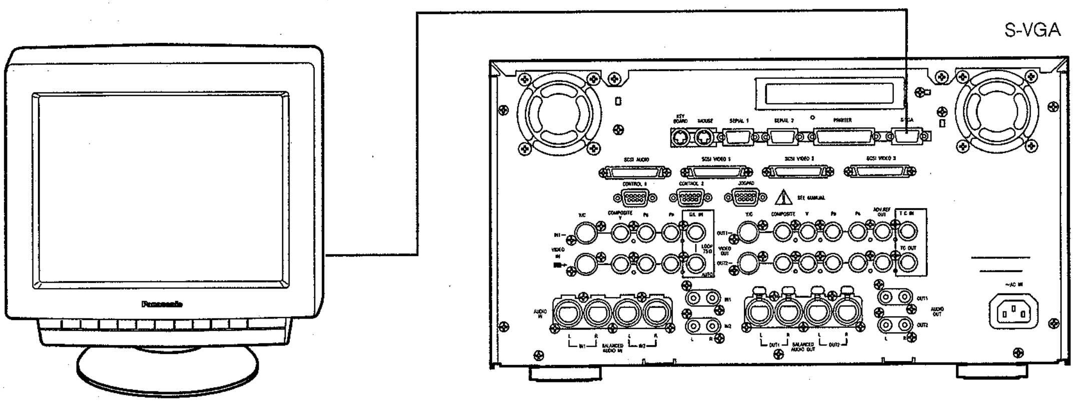

Control Unit
Tighten these screws after the connection.
Jog Pad Cable (accessory)
Jog Pad

■ Monitor Connection

● Computer Display Connection

Connect the S-VGA Connector of this unit with the computer display.
The usable computer display is shown in the following.

Resolution	1024 x 768 dot
Horizontal Scanning Frequency	36 kHz
Vertical Scanning Frequency	86 Hz



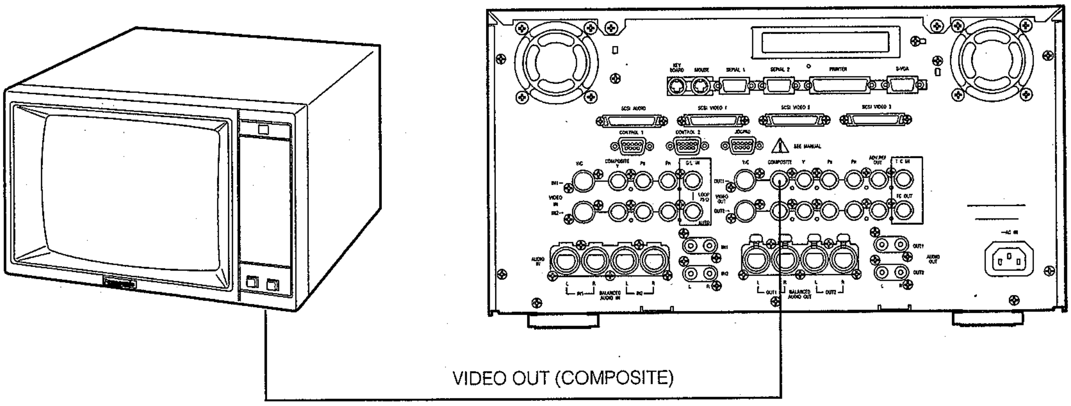
Cable with 15-pin Connector

S-VGA

Computer Display

● VIDEO Monitor Connection

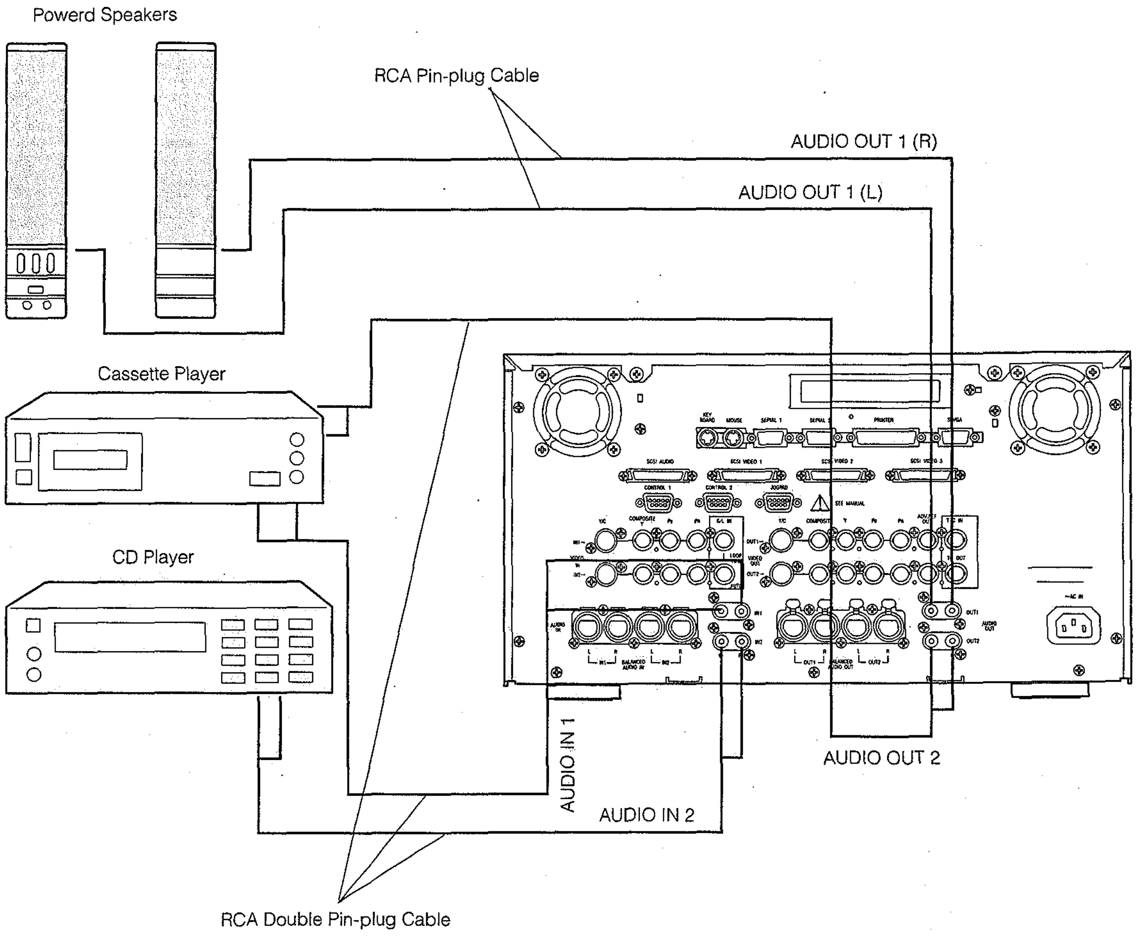
Connect the COMPOSITE Connector of this unit with the video monitor.



VIDEO OUT (COMPOSITE)

Coaxial Cable with BNC Connector

■ Powered Speaker, Cassette Tape Recorder or CD Player Connection


Powerd Speakers
RCA Pin-plug Cable
AUDIO OUT 1 (R)
AUDIO OUT 1 (L)
Cassette Player
CD Player
AUDIO IN 1
AUDIO IN 2
AUDIO OUT 2
RCA Double Pin-plug Cable

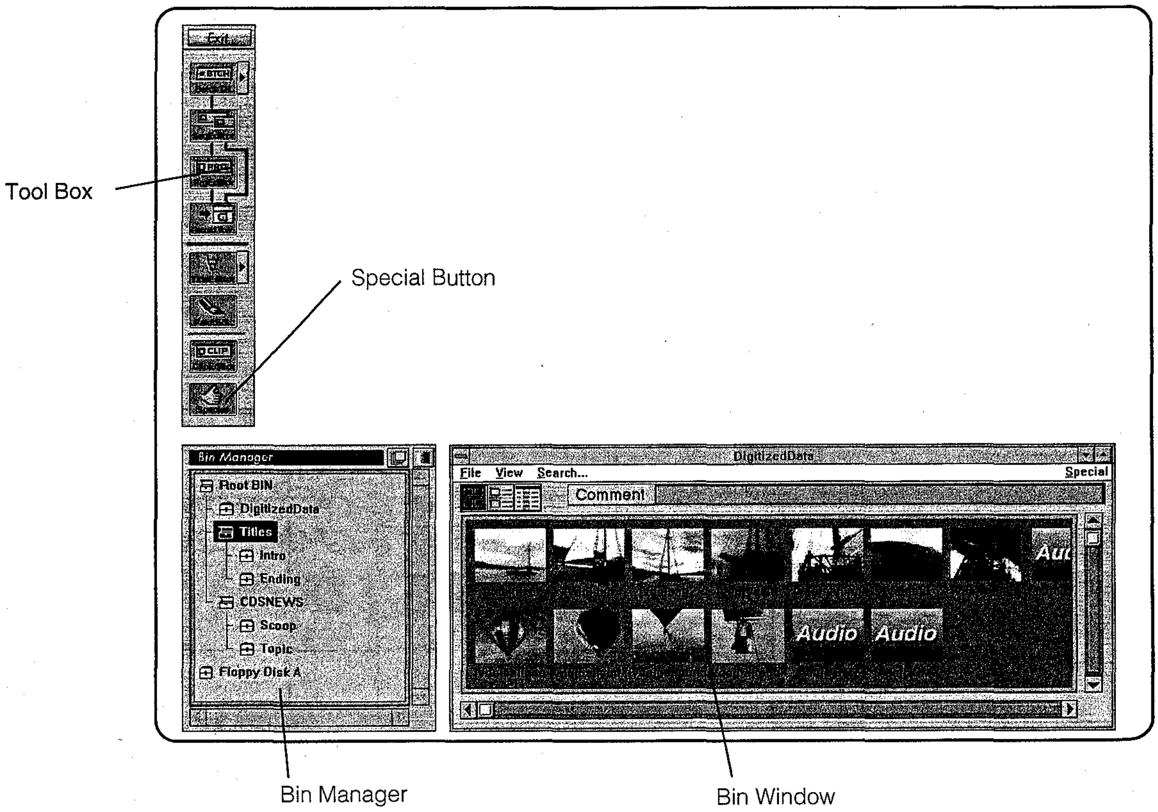
OPERATING PROCEDURES

Refer to the User's Manual or Reference Manual for the detail.

■ Start a System

1. Turn on the power of the periphery in this system.
2. And then turn on the Main Unit.
   The system starts and the initial window(Tool Box, Bin Manager or Bin Window) appears on the Computer Display.

Computer Display is shown below.

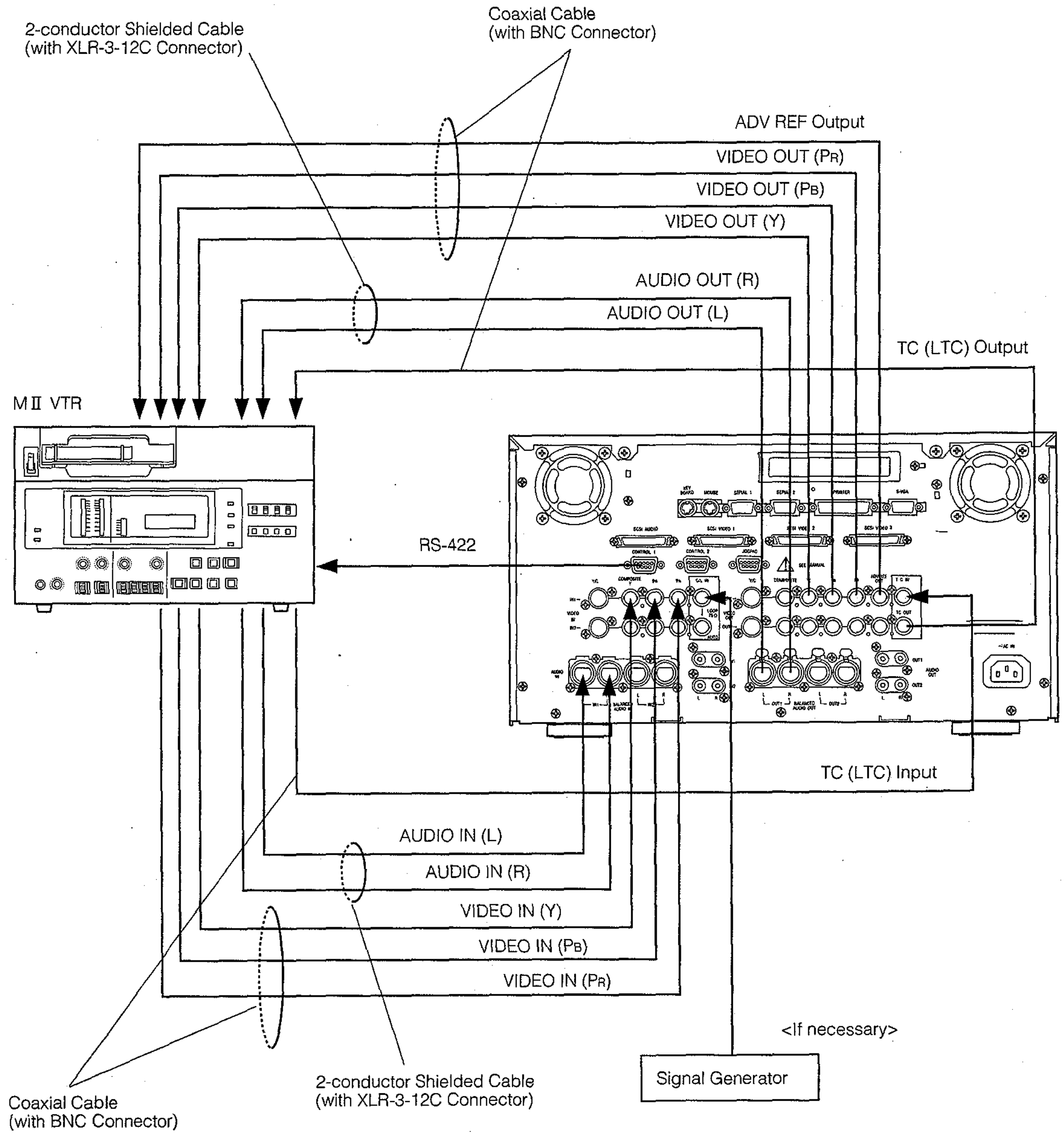

Exit
Tool Box
Special Button
Bin Manager
Root BIN
DigitizedData
Titles
Intro
Ending
CDSNEWS
Scoop
Topic
Floppy Disk A
DigitizedData
File
View
Search...
Special
Comment
Audio
Audio
Bin Manager
Bin Window

■ Close a System

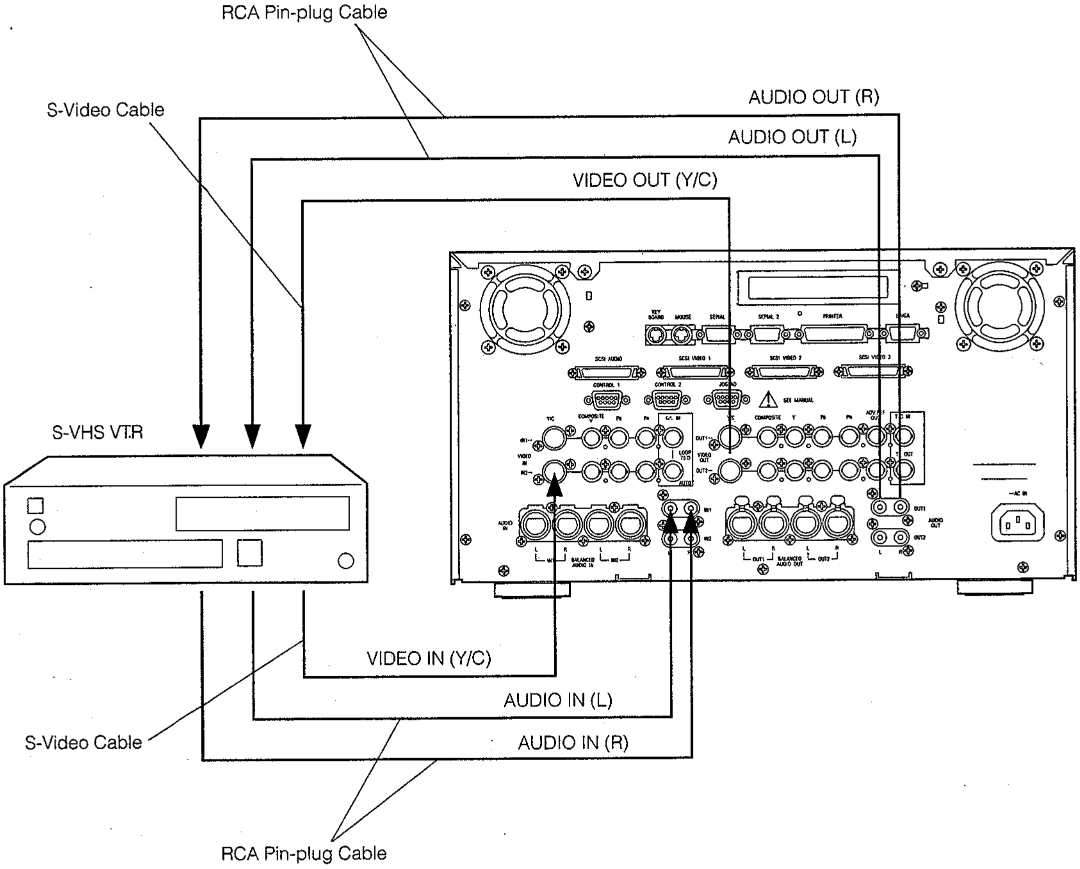
1. Click "Exit" on the Tool Box.
2. Click "OK".
3. Turn off the power of the periphery in this system and Main Unit.

■ VTR Connection

● MⅡ Format VTR


2-conductor Shielded Cable
(with XLR-3-12C Connector)
Coaxial Cable
(with BNC Connector)
ADV REF Output
VIDEO OUT (PR)
VIDEO OUT (PB)
VIDEO OUT (Y)
AUDIO OUT (R)
AUDIO OUT (L)
TC (LTC) Output
MⅡ VTR
RS-422
TC (LTC) Input
AUDIO IN (L)
AUDIO IN (R)
VIDEO IN (Y)
VIDEO IN (PB)
VIDEO IN (PR)
<If necessary>
Signal Generator
Coaxial Cable
(with BNC Connector)
2-conductor Shielded Cable
(with XLR-3-12C Connector)

● S-VHS VTR


RCA Pin-plug Cable
S-Video Cable
AUDIO OUT (R)
AUDIO OUT (L)
VIDEO OUT (Y/C)
S-VHS VTR
VIDEO IN (Y/C)
AUDIO IN (L)
AUDIO IN (R)
S-Video Cable
RCA Pin-plug Cable

■ Install the Software Package

You should install the application program of the floppy disk(provided with the WJ-AS1000) into the Main Unit to operate this system.
Refer to "Windows Quick User's Guide" for the basic operation of Windows.

Note : Back-up MS-DOS or Windows before the installations of the application program and font.

Install an Application Program

1. Turn on the periphery in this system.
2. And then turn on the Main Unit.
   Windows executes.
3. Select the program manager and press the Alt + F key.
   The Pull Down menu is displayed.
4. Click "RUN....".
5. Insert the [DISK No1] floppy disk into the FDD.
6. Type "A:\SETUP" from the key board and click "OK".
   The initial setup window appears.
7. Click "Continue".
   The input screen appears.
8. Type your name, company and serial numbers from key board.
9. Click "Continue".
   The Control Panel shown below is displayed.
10. Click "Continue".
    "Please insert the diskette labeled:disk2" is displayed.
11. Insert the "DISK No2" floppy disk into the FDD and click "OK".
12. Insert the contents of all floppy disks into the Main Unit according to the message on the computer display.

■ Install the Font

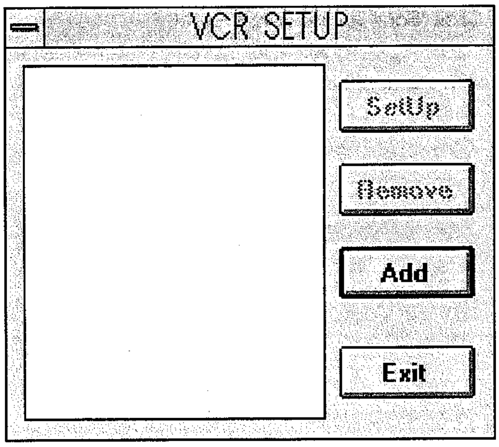
1. Turn on the Main Unit.
   The application program activates.
2. Double click "Special" on Tool Box.
   The Setup panel appears.
3. Click "Font" on the Setup Panel.
   Click "Append All" and combine the necessary font with the application program.

■ Device Setting

Refer to the Reference Manual of WJ-AS1000 for detail.

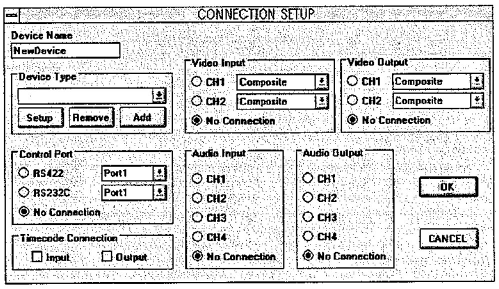
1. Double click “Special” on Tool Box.
2. Click “Device” on the Setup Panel.
   “VTR SETUP” window is displayed.

Device Setup Window


VCR SETUP
SetUp
Remove
Add
Exit

3. Click “SetUp” on Device Window.
   “CONNECTION SETUP” panel is displayed.

Connection Setup Panel


CONNECTION SETUP
Device Type
Setup
Remove
Add
Video Input
Video Output
Control Port
Audio Input
Audio Output
Timecode Connection
OK
CANCEL

Device Name: NewDevice

Video Input: ○ CH1 Composite / ○ CH2 Composite / ● No Connection

Video Output: ○ CH1 Composite / ○ CH2 Composite / ● No Connection

Control Port: ○ RS422 Port1 / ○ RS232C Port1 / ● No Connection

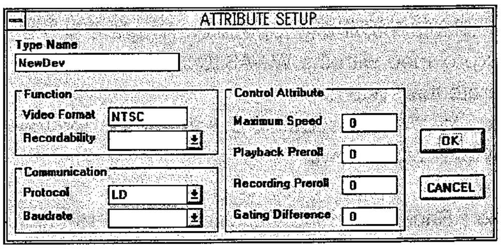
Timecode Connection: ☐ Input ☐ Output

Audio Input: ○ CH1 ○ CH2 ○ CH3 ○ CH4 ● No Connection

Audio Output: ○ CH1 ○ CH2 ○ CH3 ○ CH4 ● No Connection

4. Set the necessary items.
5. Click “SetUp” or “Add”.
   “ATTRIBUTE SETUP” panel is displayed.

Attribute Setup Panel


ATTRIBUTE SETUP
Function
Communication
Control Attribute
OK
CANCEL

Type Name: NewDev

Video Format: NTSC

Recordability:

Protocol: LD

Baudrate:

Maximum Speed: 0

Playback Preroll: 0

Recording Preroll: 0

Gating Difference: 0

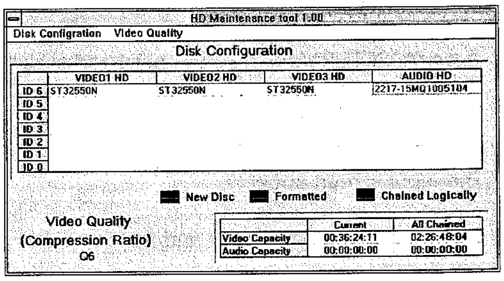
6. Set Function, Communication and Control Attribute.

■ Operation Confirmation

Refer to the Reference Manual for the HD Maintenance tools.

1. Double click “Special” on Tool Box.
   “Setup Panel” is displayed.

HD Maintenance Setup Panel


HD Maintenance tool 1.00
Disk Configration
Video Quality
Disk Configuration
New Disc
Formatted
Chained Logically

	VIDEO1 HD	VIDEO2 HD	VIDEO3 HD	AUDIO HD
ID 6	ST32550N	ST32550N	ST32550N	2217-15MQ1005104
ID 5				
ID 4				
ID 3				
ID 2				
ID 1				
ID 0				

Video Quality (Compression Ratio) Q6

	Current	All Chained
Video Capacity	00:36:24:11	02:26:48:04
Audio Capacity	00:00:00:00	00:00:00:00

2. Click “AV HD” to display “HD Maintenance tool” panel.
3. The HDD’s number installed into each main unit is displayed.

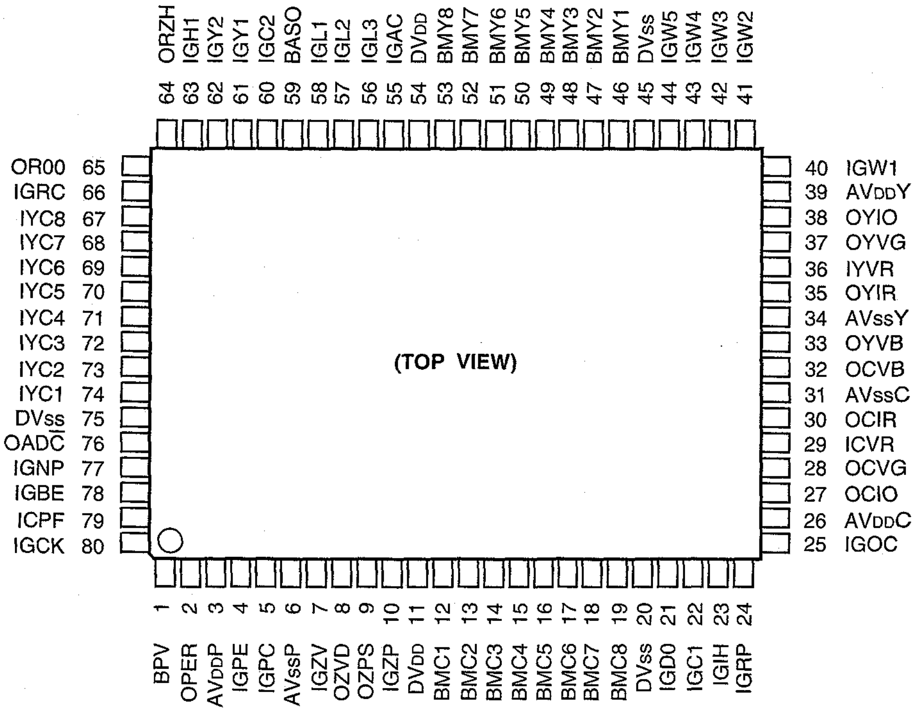
Note: All of the installed HDDs should be displayed with the blue colour.

CIRCUIT DESCRIPTION

IC Description

1. Input Board

1.1. IC205 on the Input Board is using the Y/C Separator IC YWCXD2105AQ.
Description of this IC is as follows:

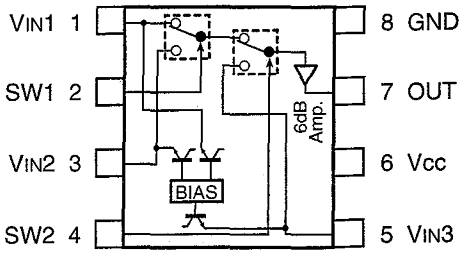

64 ORZH
63 IGH1
62 IGY2
61 IGY1
60 IGC2
59 BASO
58 IGL1
57 IGL2
56 IGL3
55 IGAC
54 DVDD
53 BMY8
52 BMY7
51 BMY6
50 BMY5
49 BMY4
48 BMY3
47 BMY2
46 BMY1
45 DVss
44 IGW5
43 IGW4
42 IGW3
41 IGW2
OR00 65
IGRC 66
IYC8 67
IYC7 68
IYC6 69
IYC5 70
IYC4 71
IYC3 72
IYC2 73
IYC1 74
DVss 75
OADC 76
IGNP 77
IGBE 78
ICPF 79
IGCK 80
(TOP VIEW)
40 IGW1
39 AVDDY
38 OYIO
37 OYVG
36 IYVR
35 OYIR
34 AVssY
33 OYVB
32 OCVB
31 AVssC
30 OCIR
29 ICVR
28 OCVG
27 OCIO
26 AVDDC
25 IGOC
1 BPY
2 OPER
3 AVDDP
4 IGPE
5 IGPC
6 AVssP
7 IGZV
8 OZVD
9 OZPS
10 IGZP
11 DVDD
12 BMC1
13 BMC2
14 BMC3
15 BMC4
16 BMC5
17 BMC6
18 BMC7
19 BMC8
20 DVss
21 IGD0
22 IGC1
23 IGIH
24 IGRP

Pin	Name	I/O	Description
1	BPY	I	BPY signal input terminal.
2	OPER	O	OPER signal output terminal.
3	AVDDP	–	Power supply terminal for Analog circuit.
4	IGPE	I	IGPE signal input terminal.
5	IGPC	I	IGPC signal input terminal.
6	AVssP	–	Ground terminal for Analog circuit.
7	IGZV	I	IGZV signal input terminal.
8	OZVD	O	OZVD signal output terminal..
9	OZPS	O	OZPS signal output terminal.
10	IGZP	I	IGZP signal input terminal.
11	DVDD	–	Power supply terminal for Digital circuit.
12	BMC1	I/O	BMC signal input/output terminals. (8-Bit)
13	BMC2	I/O	
14	BMC3	I/O	
15	BMC4	I/O	
16	BMC5	I/O	
17	BMC6	I/O	
18	BMC7	I/O	
19	BMC8	I/O	
20	DVss	–	Ground terminal for Digital circuit.
21	IGD0	I	IGD0 signal input terminal.

Pin	Name	I/O	Description
22	IGC1	I	IGC1 signal input terminal.
23	IGIH	I	IGIH signal input terminal.
24	IGRP	I	IGRP signal input terminal.
25	IGOC	I	IGOC signal input terminal.
26	AVDDC	–	Power supply terminal for Analog circuit.
27	OCIO	O	OCIO signal output terminal.
28	OCVG	O	OCVG signal output terminal.
29	ICVR	I	ICVR signal input terminal.
30	OCIR	O	OCIR signal output terminal.
31	AVssC	–	Ground terminal for Analog circuit.
32	OCVB	O	OCVB signal output terminal.
33	OCYB	O	OCYB signal output terminal.
34	AVssY	–	Ground terminal for Analog circuit.
35	OYIR	O	OYIR signal output terminal.
36	IYVR	I	IYVR signal input terminal.
37	OYVG	O	OYVG signal output terminal.
38	OYIO	O	OYIO signal output terminal.
39	AVDDY	–	Power supply terminal for Analog circuit.
40	IGW1	I	IGW1 signal input terminal.
41	IGW2	I	IGW2 signal input terminal.
42	IGW3	I	IGW3 signal input terminal.

Pin	Name	I/O	Description
43	IGW4	I	IGW4 signal input terminal.
44	IGW5	I	IGW5 signal input terminal.
45	DVss	–	Ground terminal for Digital circuit.
46	BMY1	I/O	BMY signal input/output terminals. (8-Bit)
47	BMY2	I/O	
48	BMY3	I/O	
49	BMY4	I/O	
50	BMY5	I/O	
51	BMY6	I/O	
52	BMY7	I/O	
53	BMY8	I/O	
54	DVDD	–	Power supply terminal for Digital circuit.
55	IGAC	I	IGAC signal input terminal.
56	IGL3	I	IGL3 signal input terminal.
57	IGL2	I	IGL2 signal input terminal.
58	IGL1	I	IGL1 signal input terminal.
59	BASO	I/O	BASO signal input/output terminal.
60	IGC2	I	IGC2 signal input terminal.
61	IGY1	I	IGY1 signal input terminal.
62	IGY2	I	IGY2 signal input terminal.
63	IGH1	I	IGH1 signal input terminal.
64	ORZH	O	ORZH signal output terminal.
65	OR00	O	OR00 signal output terminal.
66	IGRC	I	IGRC signal input terminal.
67	IYC8	I	IYC signal input terminals. (8-Bit)
68	IYC7	I	
69	IYC6	I	
70	IYC5	I	
71	IYC4	I	
72	IYC3	I	
73	IYC2	I	
74	IYC1	I	
75	DVss	–	Ground terminal for Digital circuit.
76	OADC	O	OADC signal output terminal.
77	IGNP	I	IGNP signal input terminal.
78	IGBE	I	IGBE signal input terminal.
79	IGPF	I	IGPF signal input terminal.
80	IGCK	I	IG Clock Pulse input terminal.

1.2. IC244 on the Input Board is using the 3-Input Video Switch IC YWNJM2246M.
Description of this IC is as follows:



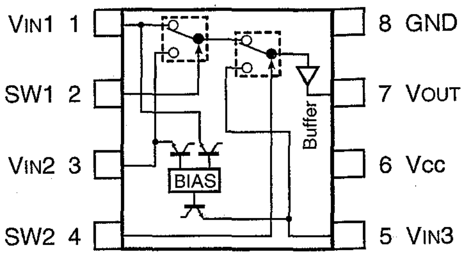
(TOP VIEW)

Truth Table

SW1	SW2	OUT
L	L	VIN1
H	L	VIN2
*	H	VIN3

* : Don't care.

1.3. IC206, IC207 and IC220 to IC222 on the Input Board and IC702, IC703, IC709-IC711 on the Mixer Board are using the 3-Input Video Switch with Clamp IC YWNJM2235M.
Description of this IC is as follows:



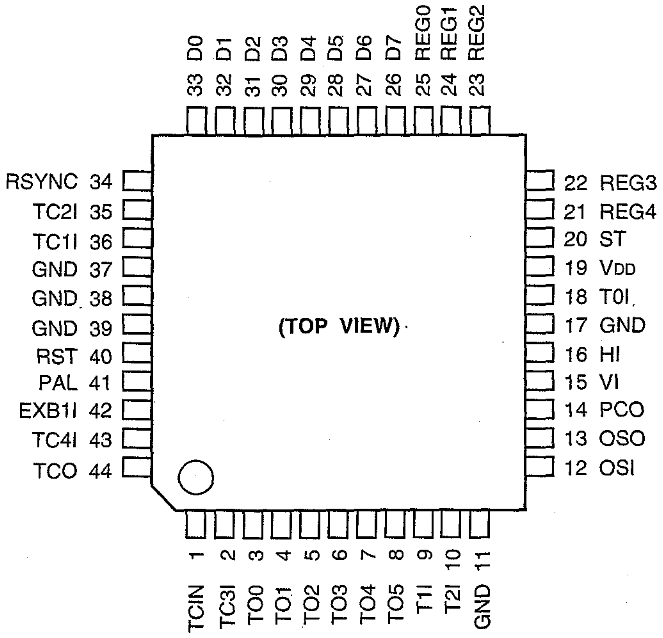
(TOP VIEW)

Truth Table

SW1	SW2	VOUT
L	L	VIN1
H	L	VIN2
*	H	VIN3

* : Don't care.

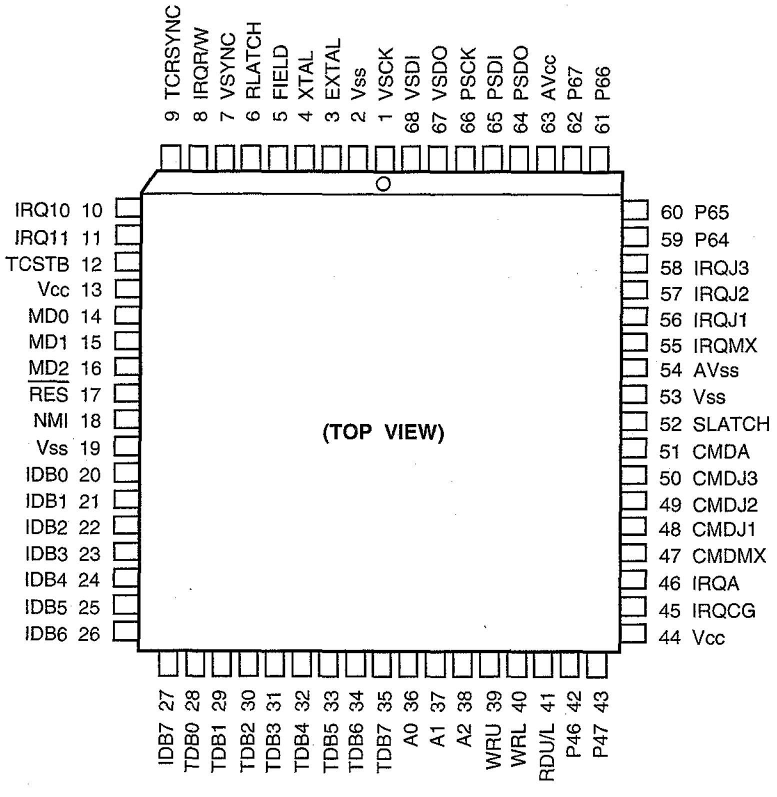
1.4. IC21 on the Input Board is using the Time Code Gate Array Logic IC YWPD65636055.
Description of this IC is as follows:


33 D0
32 D1
31 D2
30 D3
29 D4
28 D5
27 D6
26 D7
25 REG0
24 REG1
23 REG2
RSYNC 34
TC2I 35
TC1I 36
GND 37
GND 38
GND 39
RST 40
PAL 41
EXB1I 42
TC4I 43
TCO 44
22 REG3
21 REG4
20 ST
19 VDD
18 T0I
17 GND
16 HI
15 VI
14 PCO
13 OSO
12 OSI
(TOP VIEW)
1 TCIN
2 TC3I
3 TO0
4 TO1
5 TO2
6 TO3
7 TO4
8 TO5
9 T1I
10 T2I
11 GND

Pin	Name	I/O	Description
1	TCIN	I	TCIN signal input terminal.
2	TC3I	I	TC3I signal input terminal.
3	TO0	O	TO0 signal output terminal.
4	TO1	O	TO1 signal output terminal.
5	TO2	O	TO2 signal output terminal.
6	TO3	O	TO3 signal output terminal.
7	TO4	O	TO4 signal output terminal.
8	TO5	O	TO5 signal output terminal.
9	T1I	I	T1I signal input terminal.
10	T2I	I	T2I signal input terminal.
11	GND	–	Ground terminal.
12	OSI	I	Oscillator input terminal.
13	OSO	O	Oscillator output terminal.
14	PCO	O	Phase Comparator output terminal.
15	VI	I	Vertical signal input terminal.
16	HI	I	Horizontal signal input terminal.
17	GND	–	Ground terminal.
18	T0I	I	T0I signal input terminal.
19	VDD	–	Power supply terminal.
20	ST	I	ST signal input terminal.
21	REG4	I	Register signal input terminals.(5-Bit)
22	REG3	I	

Pin	Name	I/O	Description
23	REG2	I	Register signal input terminals.(5-Bit)
24	REG1	I	
25	REG0	I	
26	D7	I/O	Data input/output terminals. (8-Bit)
27	D6	I/O	
28	D5	I/O	
29	D4	I/O	
30	D3	I/O	
31	D2	I/O	
32	D1	I/O	
33	D0	I/O	
34	RSYNC	O	Sync signal input terminal.
35	TC2I	I	TC2I signal input terminal.
36	TC1I	I	TC1I signal input terminal.
37	GND	–	Ground terminal.
38	GND	–	Ground terminal.
39	GND	–	Ground terminal.
40	RST	I	Reset Pulse input terminal.
41	PAL	I	PAL Select signal input terminal.
42	EXB1I	I	EXB1I signal input terminal.
43	TC4I	I	TC4I signal input terminal.
44	TCO	O	TCO signal output terminal.

1.5. *IC10 on the Input Board is using the 8-Bit Microprocessor IC YWH8520CPA01.*
Description of this IC is as follows:

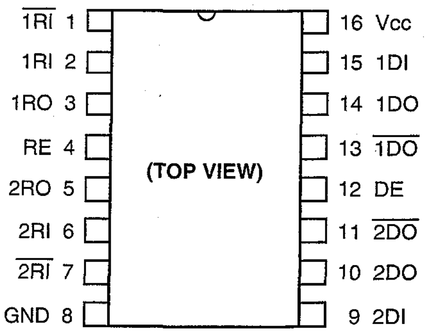

9 TCRSYNC
8 IRQR/W
7 VSYNC
6 RLATCH
5 FIELD
4 XTAL
3 EXTAL
2 Vss
1 VSCK
68 VSDI
67 VSDO
66 PSCK
65 PSDI
64 PSDO
63 AVcc
62 P67
61 P66
IRQ10 10
IRQ11 11
TCSTB 12
Vcc 13
MD0 14
MD1 15
MD2 16
$\overline{\text{RES}}$ 17
NMI 18
Vss 19
IDB0 20
IDB1 21
IDB2 22
IDB3 23
IDB4 24
IDB5 25
IDB6 26
(TOP VIEW)
60 P65
59 P64
58 IRQJ3
57 IRQJ2
56 IRQJ1
55 IRQMX
54 AVss
53 Vss
52 SLATCH
51 CMDA
50 CMDJ3
49 CMDJ2
48 CMDJ1
47 CMDMX
46 IRQA
45 IRQCG
44 Vcc
IDB7 27
TDB0 28
TDB1 29
TDB2 30
TDB3 31
TDB4 32
TDB5 33
TDB6 34
TDB7 35
A0 36
A1 37
A2 38
WRU 39
WRL 40
RDU/L 41
P46 42
P47 43

Pin	Name	I/O	Description
1	VSCK	O	V Serial Clock Pulse output terminal.
2	Vss	–	Ground terminal.
3	EXTAL	O	Crystal Oscillator connecting terminals.
4	XTAL	I	
5	FIELD	I	Field signal input terminal.
6	RLATCH	O	RLATCH signal output terminal.
7	VSYNC	I	Vertical Sync signal input terminal.
8	IRQR/W	I	IRQR/W signal input terminal.
9	TCRSYNC	I	TCR Sync signal input terminal.
10	IRQ10	O	IRQ10 signal output terminal.
11	IRQ11	O	IRQ11 signal output terminal.
12	TCSTB	O	Strobe signal output terminal.
13	Vcc	–	Power supply terminal.
14	MD0	I	MD signal input terminals.
15	MD1	I	
16	MD2	I	
17	$\overline{\text{RES}}$	I	Reset Pulse input terminal.
18	NMI	I	Non Maskable Interrupt signal input terminal.
19	Vss	–	Ground terminal.
20	IDB0	O	IDB Data output terminals. (8-Bit)

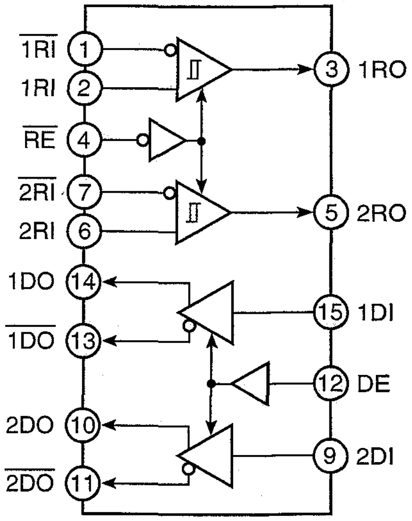
Pin	Name	I/O	Description
21	IDB1	O	IDB Data output terminals. (8-Bit)
22	IDB2	O	
23	IDB3	O	
24	IDB4	O	
25	IDB5	O	
26	IDB6	O	
27	IDB7	O	
28	TDB0	O	TDB Data output terminals. (8-Bit)
29	TDB1	O	
30	TDB2	O	
31	TDB3	O	
32	TDB4	O	
33	TDB5	O	
34	TDB6	O	
35	TDB7	O	
36	A0	I	Address signal input terminals. (3-Bit)
37	A1	I	
38	A2	I	
39	WRU	O	WRU signal output terminal.
40	WRL	O	WRL signal output terminal.

Pin	Name	I/O	Description
41	RDU/L	O	RDU/L signal output terminal.
42	P46	I/O	P46 signal input/output terminal.
43	P47	I/O	P47 signal input/output terminal.
44	Vcc	–	Power supply terminal.
45	IRQCG	O	IRQCG signal output terminal.
46	IRQA	O	IRQA signal output terminal.
47	CMDMX	O	CMDMX signal output terminal.
48	CMDJ1	O	CMDJ signal output terminals.
49	CMDJ2	O	
50	CMDJ3	O	
51	CMDA	O	CMDA signal output terminal.
52	SLATCH	O	SLATCH signal output terminal.
53	Vss	–	Ground terminal.
54	AVss	–	Ground terminal for Analog circuit.
55	IRQMX	O	IRQMX signal output terminal.
56	IRQJ1	O	IRQJ signal output terminals.
57	IRQJ2	O	
58	IRQJ3	O	
59	P64	I/O	P64 signal input/output terminal.
60	P65	I/O	P65 signal input/output terminal.
61	P66	I/O	P66 signal input/output terminal.
62	P67	I/O	P67 signal input/output terminal.
63	AVcc	–	Power supply terminal for Analog circuit.
64	PSDO	O	P Serial Data output terminal.
65	PSDI	I	P Serial Data input terminal.
66	PSCK	O	P Serial Clock Pulse output terminal.
67	VSDO	O	V Serial Data output terminal.
68	VSDI	I	V Serial Data input terminal.

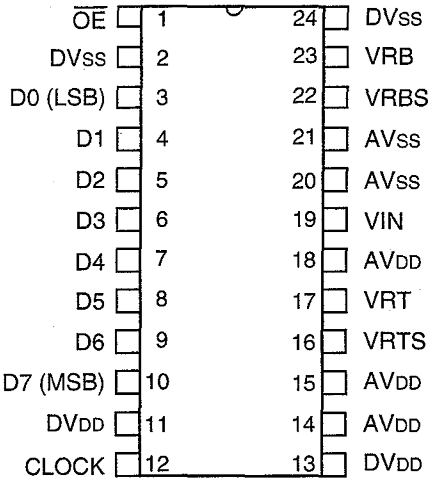
1.6. IC12 and IC25 on the Input Board are using the RS422A Transceiver IC YWM5M34050FP. Description of this IC is as follows:


$\overline{\text{1RI}}$ 1
1RI 2
1RO 3
RE 4
2RO 5
2RI 6
$\overline{\text{2RI}}$ 7
GND 8
(TOP VIEW)
16 Vcc
15 1DI
14 1DO
13 $\overline{\text{1DO}}$
12 DE
11 $\overline{\text{2DO}}$
10 2DO
9 2DI

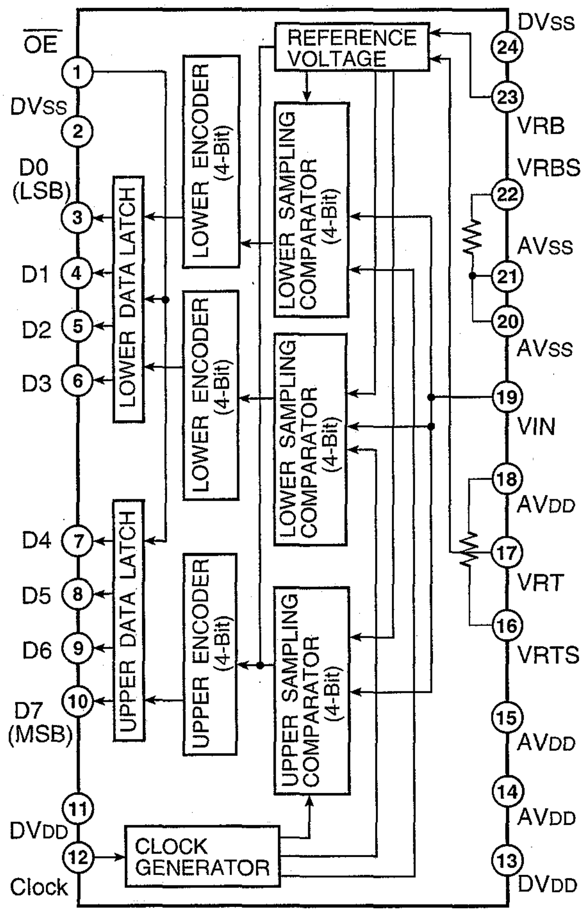
Pin	Name	I/O	Description
1	$\overline{\text{1RI}}$	I	$\overline{\text{1RI}}$ signal input terminal.
2	1RI	I	1RI signal input terminal.
3	1RO	O	1RO signal output terminal.
4	RE	I	RE signal input terminal.
5	2RO	O	2RO signal output terminal.
6	2RI	I	2RI signal input terminal.
7	$\overline{\text{2RI}}$	I	$\overline{\text{2RI}}$ signal input terminal.
8	GND	–	Ground terminal.
9	2DI	I	2DI signal input terminal.
10	2DO	O	2DO signal output terminal.
11	$\overline{\text{2DO}}$	O	$\overline{\text{2DO}}$ signal output terminal.
12	DE	I	DE signal input terminal.
13	$\overline{\text{1DO}}$	O	$\overline{\text{1DO}}$ signal output terminal.
14	1DO	O	1DO signal output terminal.
15	1DI	I	1DI signal input terminal.
16	Vcc	–	Power supply terminal.


$\overline{\text{1RI}}$ ①
1RI ②
③ 1RO
$\overline{\text{RE}}$ ④
$\overline{\text{2RI}}$ ⑦
2RI ⑥
⑤ 2RO
1DO ⑭
$\overline{\text{1DO}}$ ⑬
⑮ 1DI
⑫ DE
2DO ⑩
$\overline{\text{2DO}}$ ⑪
⑨ 2DI

1.7. IC203, IC226, IC229 and IC235 on the Input Board are using the 8-Bit A/D Converter IC YWCXD1175AM. Description of this IC is as follows:

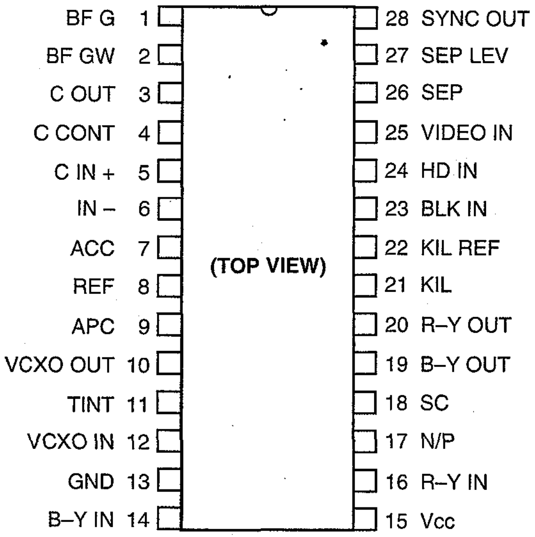

OE 1
DVss 2
D0 (LSB) 3
D1 4
D2 5
D3 6
D4 7
D5 8
D6 9
D7 (MSB) 10
DVDD 11
CLOCK 12
24 DVss
23 VRB
22 VRBS
21 AVss
20 AVss
19 VIN
18 AVDD
17 VRT
16 VRTS
15 AVDD
14 AVDD
13 DVDD

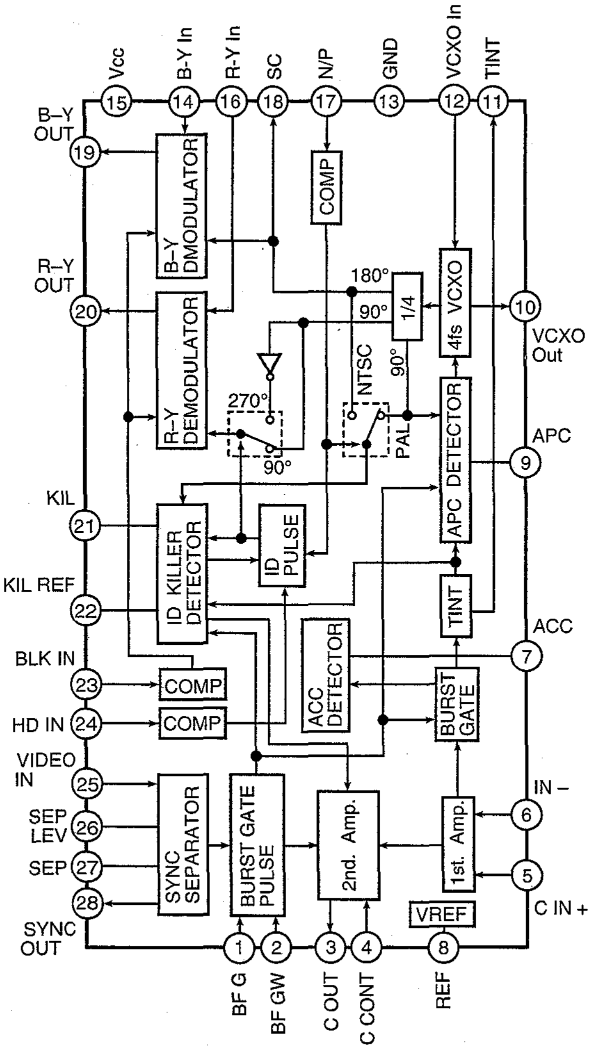
(TOP VIEW)


OE
1
DVss
2
D0 (LSB)
3
D1
4
D2
5
D3
6
D4
7
D5
8
D6
9
D7 (MSB)
10
DVDD
11
12
Clock
LOWER DATA LATCH
UPPER DATA LATCH
LOWER ENCODER (4-Bit)
LOWER ENCODER (4-Bit)
UPPER ENCODER (4-Bit)
REFERENCE VOLTAGE
LOWER SAMPLING COMPARATOR (4-Bit)
LOWER SAMPLING COMPARATOR (4-Bit)
UPPER SAMPLING COMPARATOR (4-Bit)
CLOCK GENERATOR
DVss
24
23
VRB
VRBS
22
AVss
21
20
AVss
19
VIN
18
AVDD
17
VRT
16
VRTS
15
AVDD
14
AVDD
13
DVDD

Pin	Name	I/O	Description
1	$\overline{\text{OE}}$	I	Output Enable signal input terminal.
2	DVSS	–	Ground terminal for Digital Circuit.
3	D0	O	Digital Data D0 (LSB) output terminal.
4	D1	O	Digital Data D1 (2nd.) output terminal.
5	D2	O	Digital Data D2 (3rd.) output terminal.
6	D3	O	Digital Data D3 (4th.) output terminal.
7	D4	O	Digital Data D4 (5th.) output terminal.
8	D5	O	Digital Data D5 (6th.) output terminal.
9	D6	O	Digital Data D6 (7th.) output terminal.
10	D7	O	Digital Data D7 (MSB) output terminal.
11	DVDD	–	Power supply terminal for Digital Circuit.
12	CLOCK	I	Clock input terminal.
13	DVDD	–	Power supply terminal for Digital Circuit.
14	AVDD	–	Power supply terminal for Analog Circuit.
15	AVDD	–	Power supply terminal for Analog Circuit.
16	VRTS	O	Top Voltage output terminal.
17	VRT	I	Top Voltage input terminal.
18	AVDD	–	Power supply terminal for Analog Circuit.
19	VIN	I	Analog signal input terminal.
20	AVSS	–	Ground terminal for Analog Circuit.
21	AVSS	–	Ground terminal for Analog Circuit.
22	VRBS	O	Bottom Voltage output terminal.
23	VRB	I	Bottom Voltage input terminal.
24	DVSS	–	Ground terminal for Digital Circuit.

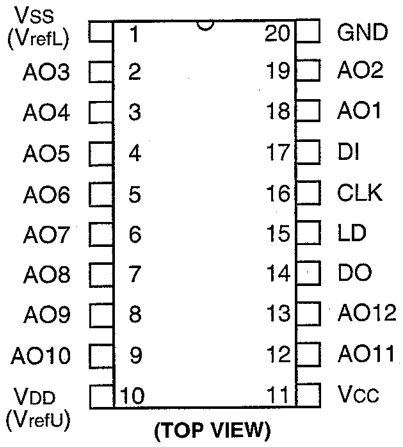
1.8. IC202 and IC214 on the Input Board are using the Chroma Difference Decoder IC YWM51271FP.
Description of this IC is as follows:


BF G 1
BF GW 2
C OUT 3
C CONT 4
C IN + 5
IN – 6
ACC 7
REF 8
APC 9
VCXO OUT 10
TINT 11
VCXO IN 12
GND 13
B–Y IN 14
(TOP VIEW)
28 SYNC OUT
27 SEP LEV
26 SEP
25 VIDEO IN
24 HD IN
23 BLK IN
22 KIL REF
21 KIL
20 R–Y OUT
19 B–Y OUT
18 SC
17 N/P
16 R–Y IN
15 Vcc

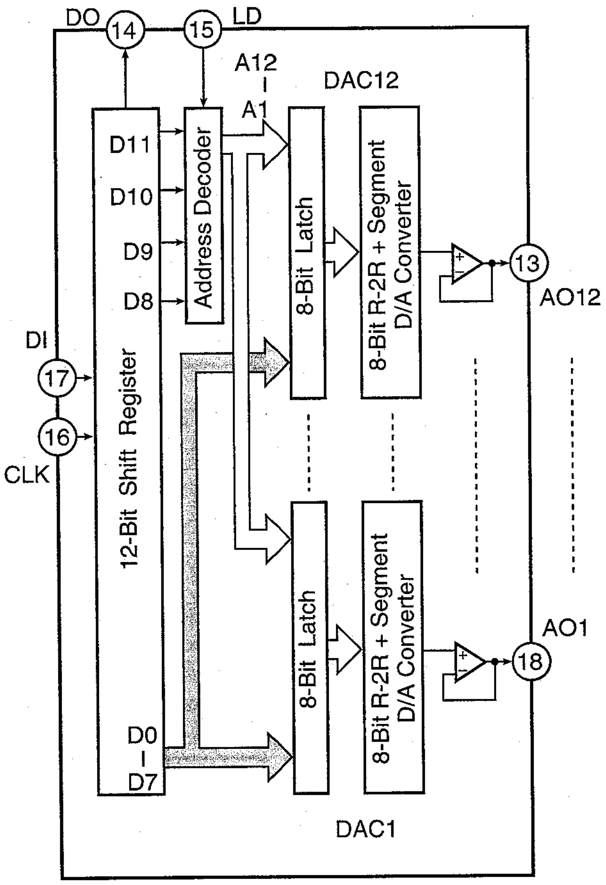

Vcc
B-Y In
R-Y In
SC
N/P
GND
VCXO In
TINT
15
14
16
18
17
13
12
11
B–Y OUT
19
B–Y DMODULATOR
COMP
180°
90°
1/4
4fs VCXO
10
VCXO Out
R–Y OUT
20
R–Y DEMODULATOR
270°
90°
NTSC
90°
PAL
APC DETECTOR
APC
9
KIL
21
ID KILLER DETECTOR
ID PULSE
TINT
KIL REF
22
ACC
7
BLK IN
23
COMP
ACC DETECTOR
BURST GATE
HD IN
24
COMP
VIDEO IN
25
SEP LEV
26
SEP
27
28
SYNC OUT
SYNC SEPARATOR
BURST GATE PULSE
2nd. Amp.
1st. Amp.
IN –
6
5
C IN +
VREF
1
2
3
4
8
BF G
BF GW
C OUT
C CONT
REF

Pin	Name	I/O	Description
1	BF G	O	Burst Gate Pulse position output terminal.
2	BF GW	I	Burst Gate Pulse Width adjusting terminal.
3	C OUT	O	Chroma signal output terminal.
4	C CONT	I	Chroma Saturation Control input terminal.
5	C IN+	I	Chroma signal input terminal.
6	IN–	I	Input Bypass Capacitor connecting terminal.
7	ACC	–	ACC Filter connecting terminal.
8	REF	–	Reference Voltage terminal.
9	APC	–	APC Filter connecting terminal.
10	VCXO OUT	O	VCXO signal output terminal.
11	TINT	I	TINT control signal input terminal.
12	VCXO I	I	VCXO signal input terminal.
13	GND	–	Ground terminal.
14	B–Y IN	I	B–Y signal input terminal.
15	Vcc	–	Power Supply terminal.
16	R–Y IN	I	R–Y signal input terminal.
17	N/P	I	NTSC/PAL switching signal input terminal. "H" = NTSC mode "L" = PAL mode
18	SC	O	Subcarrier (180°) signal output terminal.
19	B–Y OUT	O	B–Y signal output terminal.
20	R–Y OUT	O	R–Y signal output terminal.
21	KIL	–	Killer Filter Capacitor connecting terminal.
22	KIL REF	–	Killer Reference Filter Capacitor connecting terminal.
23	BLK IN	I	Blanking Pulse input terminal.
24	HD IN	I	HD signal input terminal.
25	VIDEO IN	I	Sync separated Video signal input terminal.
26	SEP	–	Sync Separator Feedback Capacitor connecting terminal.
27	SEP LEV	–	Sync Separator Slice Level adjusting terminal.
28	SYNC OUT	–	Sync signal output terminal.

1.9. IC224 on the Input Board is using the 8-Bit 12-ch D/A Converter IC YWM62352GP.
Description of this IC is as follows:

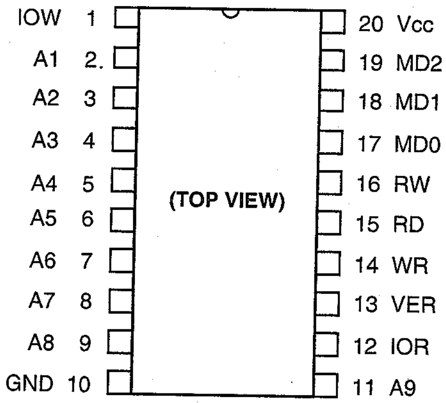

Vss (VrefL) 1
AO3 2
AO4 3
AO5 4
AO6 5
AO7 6
AO8 7
AO9 8
AO10 9
VDD (VrefU) 10
20 GND
19 AO2
18 AO1
17 DI
16 CLK
15 LD
14 DO
13 AO12
12 AO11
11 Vcc
(TOP VIEW)

Pin	Name	I/O	Description
1	Vss (VrefL)	–	Lower reference voltage supply terminal for D/A Converter circuit.
2	AO3	O	Analog Data 3 output terminal.
3	AO4	O	Analog Data 4 output terminal.
4	AO5	O	Analog Data 5 output terminal.
5	AO6	O	Analog Data 6 output terminal.
6	AO7	O	Analog Data 7 output terminal.
7	AO8	O	Analog Data 8 output terminal.
8	AO9	O	Analog Data 9 output terminal.
9	AO10	O	Analog Data 10 output terminal.
10	VDD (VrefU)	–	Upper reference voltage supply terminal for D/A Converter circuit.
11	Vcc	–	Power supply terminal terminal.
12	AO11	O	Analog Data 11 output terminal.
13	AO12	O	Analog Data 12 output terminal.
14	DO	O	MSB Data output terminal from 12-Bit Shift Register.
15	LD	I	Load signal input terminal. Data of 12-Bit Shift Register should be loaded to Decoder and D/A Output Registers when LD = H.
16	CLK	I	Shift Clock input terminal. Serial Data from DI terminal should be input to Decoder and 12-Bit Shift Register at raising edge of this signal.
17	DI	I	12-Bit Serial Data input terminal.
18	AO1	O	Analog Data 1 output terminal.
19	AO2	O	Analog Data 2 output terminal.
20	GND	–	Ground terminal.


DO
14
15
LD
A12
I
A1
DAC12
D11
D10
D9
D8
Address Decoder
8-Bit Latch
8-Bit R-2R + Segment D/A Converter
13
AO12
DI
17
16
CLK
12-Bit Shift Register
8-Bit Latch
8-Bit R-2R + Segment D/A Converter
AO1
18
D0
I
D7
DAC1

1.10. IC1 on the Input Board is using the Logic Control IC YW18CV8AV002.

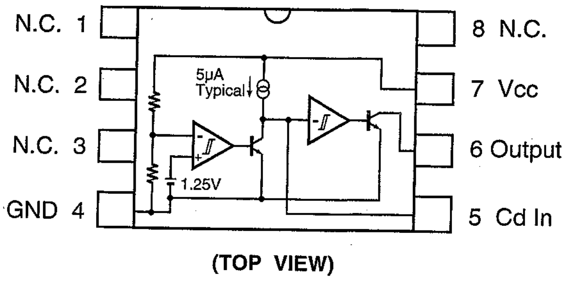
Description of this IC is as follows:

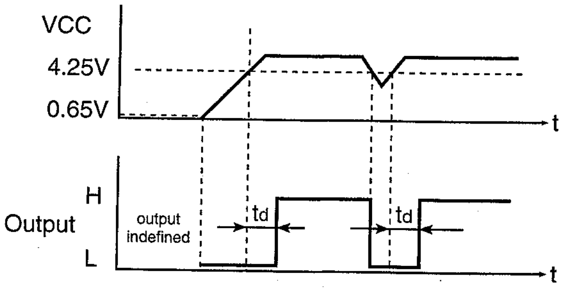

IOW 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
GND 10
(TOP VIEW)
20 Vcc
19 MD2
18 MD1
17 MD0
16 RW
15 RD
14 WR
13 VER
12 IOR
11 A9

Pin	Name	I/O	Description
1	IOW	I	IOW signal input terminal.
2	A1	I	Address signal input terminals. (9-Bit)
3	A2	I	
4	A3	I	
5	A4	I	
6	A5	I	
7	A6	I	
8	A7	I	
9	A8	I	
10	GND	–	Ground terminal.
11	A9	I	Address signal input terminals. (9-Bit)
12	IOR	I	IOR signal input terminal.
13	VER	O	VER signal output terminal.
14	WR	O	Write signal output terminal.
15	RD	O	Read signal output terminal.
16	RW	O	Read/Write signal output terminal.
17	MD0	O	MD signal output terminals. (3-Bit)
18	MD1	O	
19	MD2	O	
20	Vcc	–	Power supply terminal.

1.11. IC9 on the Input Board, IC505 on the Mixer Board, IC37 on the Audio Board and IC4 on the Main Board (Jogpad) are using the Voltage Detector IC YWM51953 BFP.

Description of this IC is as follows:

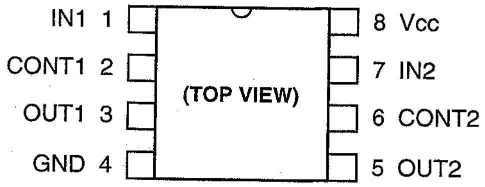

N.C. 1
N.C. 2
N.C. 3
GND 4
5μA Typical
1.25V
8 N.C.
7 Vcc
6 Output
5 Cd In
(TOP VIEW)

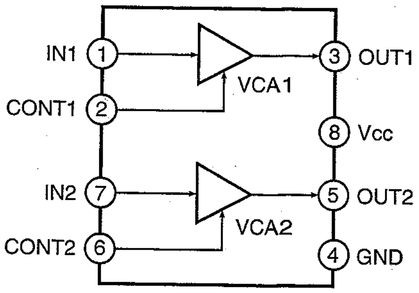


td ≈ 0.34 x Cd (pF) μsec.

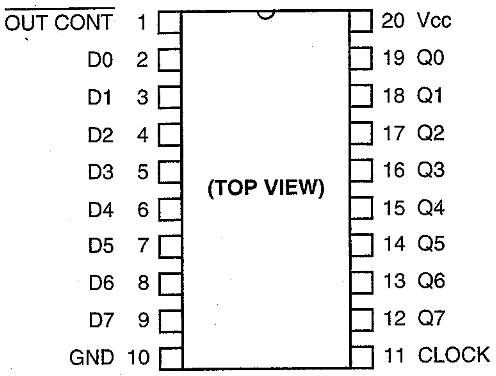
1.12. IC223 on the Input Board is using the Dual Voltage Control Amplifiers IC YWCXA1211M.

Description of this IC is as follows:


IN1 1
CONT1 2
OUT1 3
GND 4
(TOP VIEW)
8 Vcc
7 IN2
6 CONT2
5 OUT2


IN1 1
CONT1 2
VCA1
3 OUT1
8 Vcc
IN2 7
CONT2 6
VCA2
5 OUT2
4 GND

1.12. IC4, IC5, IC7, IC8, IC227 on the Input Board and IC230, IC18, IC19, IC21, IC22, IC37-IC43, IC59, IC61, IC63, IC65, IC77, IC90, IC238, IC239, IC501, IC521, IC522 and IC541 on the Mixer Board, IC33 and IC34 on the JPEG/SCSI-1 Board, IC219, IC220 on the JPEG/SCSI-2 Board and IC34, IC47-IC57, IC82, IC83, IC90 and IC103 on the CG Board are using the Octal 3-State D-FFs IC YWMC74HC574AF.

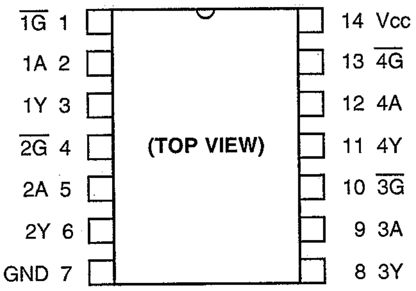

$\overline{\text{OUT CONT}}$ 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
20 Vcc
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7
11 CLOCK
(TOP VIEW)

Truth Table

INPUTS		FUNCTION
$\overline{\text{OUT CONT}}$	CLOCK	
∗	↑	Data Load
H	∗	Z

∗ : Don't care.
Z : High Impedance

1.13. IC14 on the Input Board, IC537 on the Mixer Board, IC500 on the Audio Board, IC36 on the JPEG/SCSI-1 Board and IC36 on the JPEG/SCSI-2 Board are using the 3-State Bus Buffers IC YWMC74HC125AF. Description of this IC is as follows:

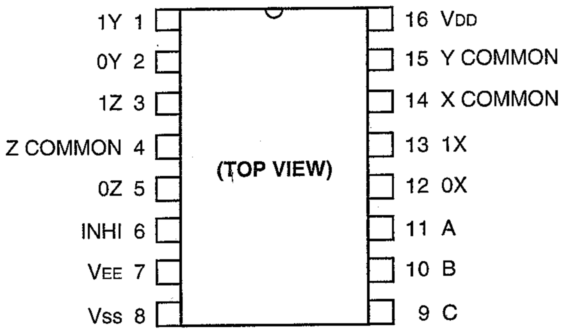

$\overline{1G}$ 1
1A 2
1Y 3
$\overline{2G}$ 4
2A 5
2Y 6
GND 7
14 Vcc
13 $\overline{4G}$
12 4A
11 4Y
10 $\overline{3G}$
9 3A
8 3Y
(TOP VIEW)

Truth Table

INPUTS		OUTPUT
$\overline{G}$	A	Y
H	∗	Z
L	L	L
L	H	H

∗ : Don't care.
Z : High Impedance

1.14. IC11, IC211 and IC234 on the Input Board are using the Triple 2-ch Analog Multiplexers/Demultiplexers IC YWMC74HC4053F.
Description of this IC is as follows:

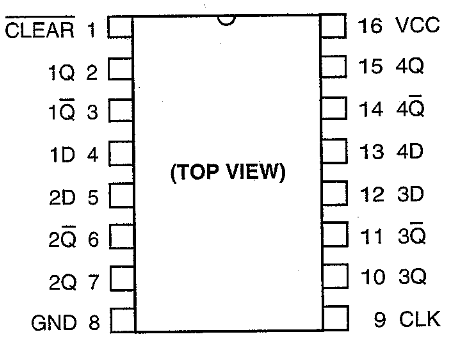

1Y 1
0Y 2
1Z 3
Z COMMON 4
0Z 5
INHI 6
VEE 7
Vss 8
16 VDD
15 Y COMMON
14 X COMMON
13 1X
12 0X
11 A
10 B
9 C
(TOP VIEW)

Truth Table

INHIBIT	C	B	A	X COMMON	Y COMMON	Z COMMON
L	L	L	L	0X	0Y	0Z
L	L	L	H	1X	0Y	0Z
L	L	H	L	0X	1Y	0Z
L	L	H	H	1X	1Y	0Z
L	H	L	L	0X	0Y	1Z
L	H	L	H	1X	0Y	1Z
L	H	H	L	0X	1Y	1Z
L	H	H	H	1X	1Y	1Z
H	∗	∗	∗	NONE	NONE	NONE

∗ : Don't care.

1.15. IC18 on the Input Board IC236 and IC237 on the Mixer Board are using the Quad D-FFs IC YWMC74 HC175AF.
Description of this IC is as follows:

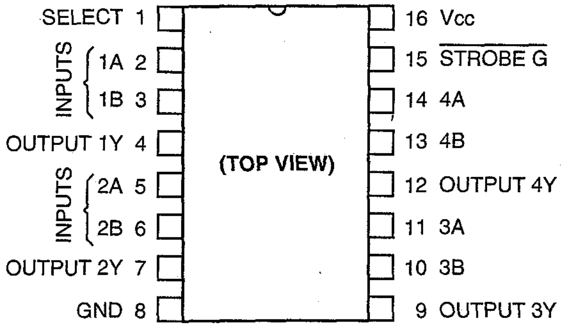

$\overline{\text{CLEAR}}$ 1
1Q 2
$1\overline{Q}$ 3
1D 4
2D 5
$2\overline{Q}$ 6
2Q 7
GND 8
16 VCC
15 4Q
14 $4\overline{Q}$
13 4D
12 3D
11 $3\overline{Q}$
10 3Q
9 CLK
(TOP VIEW)

Truth Table

INPUTS			OUTPUTS		Function
$\overline{\text{CLR}}$	D	CLK	Q	$\overline{Q}$	
L	∗	∗	L	H	Clear
H	L	↑	L	H	——
H	H	↑	H	L	——
H	∗	↓	Qn	$\overline{\text{Qn}}$	No Change

∗ : Don't care.

1.16. IC236 and IC237 on the Input Board, IC517 on the Mixer Board are using the Quad 2 to 1 Data Selectors IC YWMC74AC157M.
Description of this IC is as follows:


SELECT 1
INPUTS
1A 2
1B 3
OUTPUT 1Y 4
INPUTS
2A 5
2B 6
OUTPUT 2Y 7
GND 8
(TOP VIEW)
16 Vcc
15 STROBE G
14 4A
13 4B
12 OUTPUT 4Y
11 3A
10 3B
9 OUTPUT 3Y

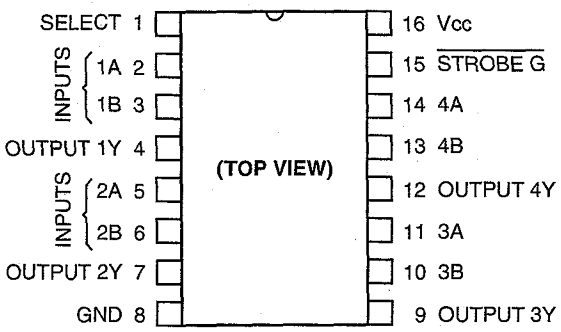
Truth Table

INPUTS		OUTPUT Y
SELECT	$\overline{\text{STROBE G}}$	
*	H	L
L	L	A
H	L	B

* : Don't care.

2. Mixer Board

2.1. IC35, IC236 and IC237 on the Mixer Board are using the Quad 2 to 1 Data Selectors IC YWMC74HC157F.
Description of this IC is as follows:

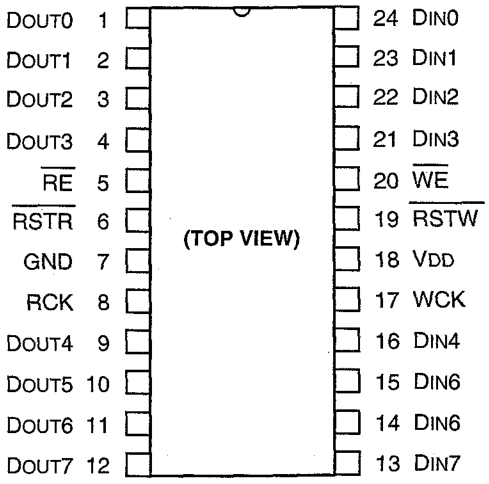

SELECT 1
INPUTS
1A 2
1B 3
OUTPUT 1Y 4
INPUTS
2A 5
2B 6
OUTPUT 2Y 7
GND 8
(TOP VIEW)
16 Vcc
15 STROBE G
14 4A
13 4B
12 OUTPUT 4Y
11 3A
10 3B
9 OUTPUT 3Y

Truth Table

INPUTS		OUTPUT Y
SELECT	$\overline{\text{STROBE G}}$	
*	H	L
L	L	A
H	L	B

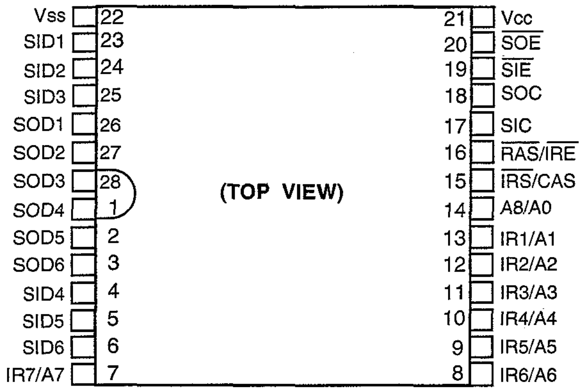
* : Don't care.

2.2. IC1-IC3, IC28-IC30, IC33, IC34, IC44-IC46, IC67-IC69, IC73, IC74, IC208 and IC210 on the Mixer Board, IC28 on the JPEG/SCSI-1 Board and IC35-IC42 on the CG Board are using the PAL 1,135-word x 8-Bit FIFO High Speed Line Buffer IC YWUPD42102G3.
Description of this IC is as follows:

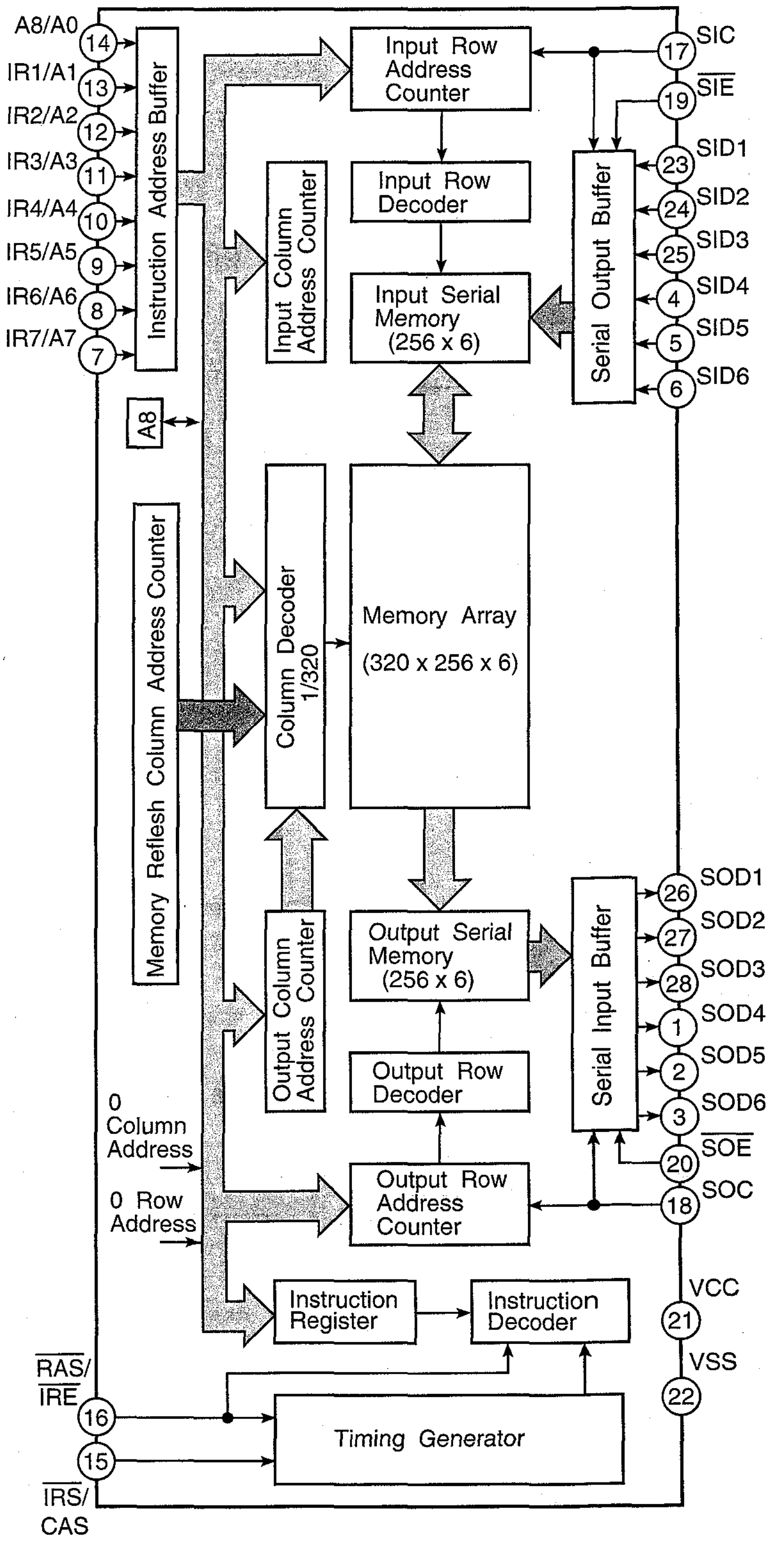

DOUT0 1
DOUT1 2
DOUT2 3
DOUT3 4
RE 5
RSTR 6
GND 7
RCK 8
DOUT4 9
DOUT5 10
DOUT6 11
DOUT7 12
(TOP VIEW)
24 DIN0
23 DIN1
22 DIN2
21 DIN3
20 WE
19 RSTW
18 VDD
17 WCK
16 DIN4
15 DIN6
14 DIN6
13 DIN7

Pin	Name	I/O	Description
1	DOUT0	O	Data output terminals. (8-Bit)
2	DOUT1	O	
3	DOUT2	O	
4	DOUT3	O	
5	$\overline{\text{RE}}$	I	Write Enable signal input terminal.
6	$\overline{\text{RSTR}}$	I	Reset Read Pulse input terminal.
7	GND	–	Ground terminal.
8	RCK	I	Read Clock Pulse input terminal.
9	DOUT4	O	Data output terminals. (8-Bit)
10	DOUT5	O	
11	DOUT6	O	
12	DOUT7	O	
13	DIN7	I	Data input terminals. (8-Bit)
14	DIN6	I	
15	DIN5	I	
16	DIN4	I	
17	WCK	I	Write Clock Pulse input terminal.
18	VDD	–	Power supply terminal.
19	$\overline{\text{RSTW}}$	I	Reset Write Pulse input terminal.
20	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
21	DIN3	I	Data input terminals. (8-Bit)
22	DIN2	I	
23	DIN1	I	
24	DIN0	I	

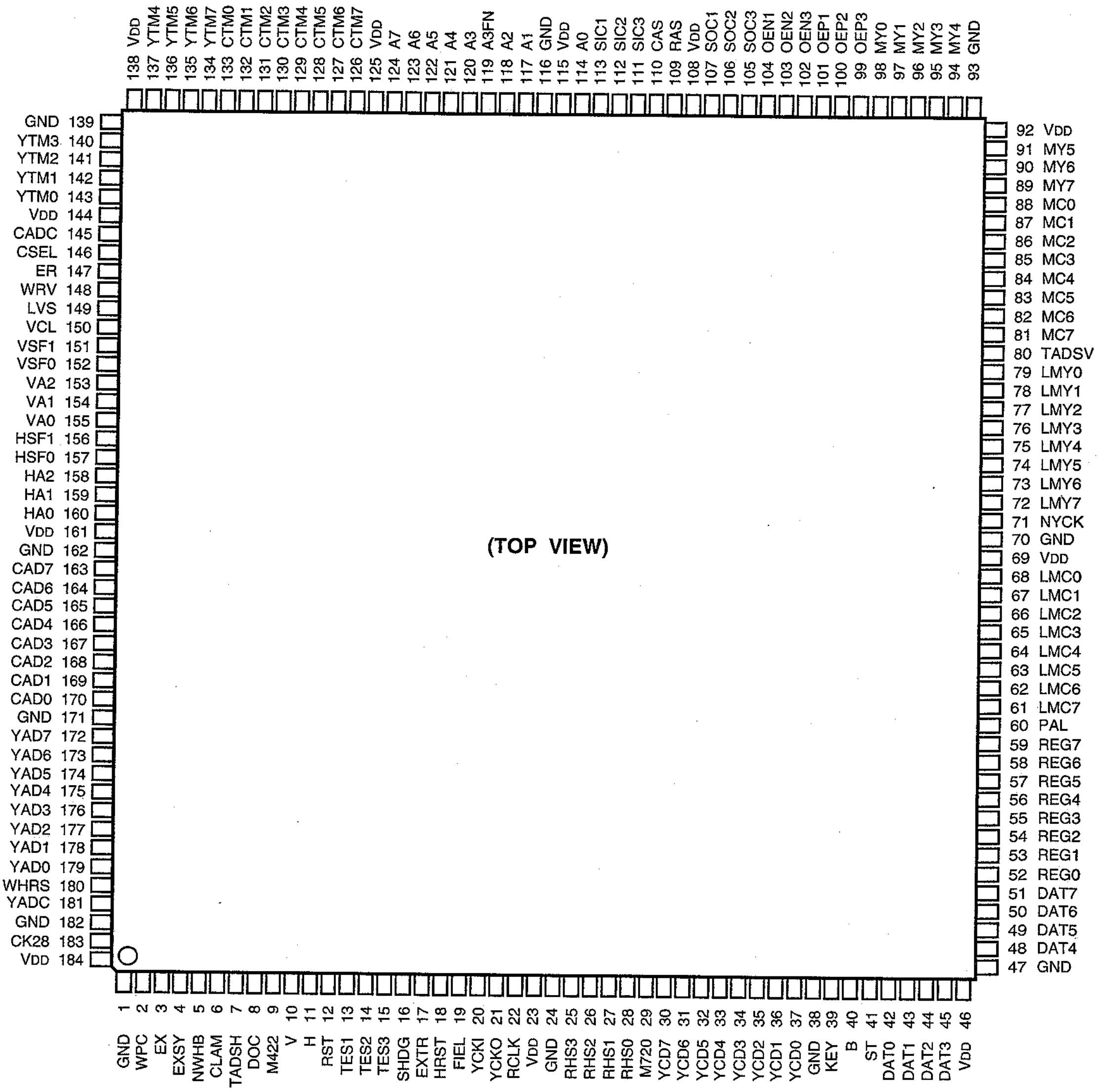
2.3. IC4-IC15 and IC47-IC58 on the Mixer Board are using the Field Memory IC YWM5M4C500AVP.
Description of this IC is as follows:


Vss 22
SID1 23
SID2 24
SID3 25
SOD1 26
SOD2 27
SOD3 28
SOD4 1
SOD5 2
SOD6 3
SID4 4
SID5 5
SID6 6
IR7/A7 7
(TOP VIEW)
21 Vcc
20 SOE
19 SIE
18 SOC
17 SIC
16 RAS/IRE
15 IRS/CAS
14 A8/A0
13 IR1/A1
12 IR2/A2
11 IR3/A3
10 IR4/A4
9 IR5/A5
8 IR6/A6

Pin	Name	In/Out	Description
1	SOD4	Out	6-bit Serial Data output terminals.
2	SOD5		
3	SOD6		
4	SID4	In	6-bit Serial Data input terminals.
5	SID5		
6	SID6		
7	IR7/A7	In	Instruction Code, Column Address and Row Address input terminals.
8	IR6/A6		
9	IR5/A5		
10	IR4/A4		
11	IR3/A3		
12	IR2/A2		
13	IR1/A1		
14	A8/A0		
15	IRS/ CAS	In	Instruction Strobe signal and Column Address Strobe signal input terminal.
16	RAS/ IRE	In	Row Address Strobe signal and Instruction enable signal input terminal.
17	SIC	In	6-bit Serial Data In Clock input terminal.
18	SOC	In	Serial Data Out Clock input terminal.
19	SIE	In	Serial Data input enable terminal.
20	SOE	In	Serial Data output enable terminal.
21	Vcc	In	Power supply terminal.
22	Vss	–	Ground terminal.
23	SID1	In	6-bit Serial Data input terminals.
24	SID2		
25	SID3		
26	SOD1	Out	6-bit Serial Data output terminals.
27	SOD2		
28	SOD3		


A8/A0 14
IR1/A1 13
IR2/A2 12
IR3/A3 11
IR4/A4 10
IR5/A5 9
IR6/A6 8
IR7/A7 7
Instruction Address Buffer
A8
Memory Reflesh Column Address Counter
0 Column Address
0 Row Address
Input Row Address Counter
Input Row Decoder
Input Serial Memory (256 x 6)
Input Column Address Counter
Column Decoder 1/320
Memory Array (320 x 256 x 6)
Output Column Address Counter
Output Serial Memory (256 x 6)
Output Row Decoder
Output Row Address Counter
Instruction Register
Instruction Decoder
Timing Generator
Serial Output Buffer
Serial Input Buffer
17 SIC
19 SIE
23 SID1
24 SID2
25 SID3
4 SID4
5 SID5
6 SID6
26 SOD1
27 SOD2
28 SOD3
1 SOD4
2 SOD5
3 SOD6
20 SOE
18 SOC
VCC 21
VSS 22
RAS/IRE 16
15 IRS/CAS

2.4. IC32 and IC71 on the Mixer Board are using the Frame Synchronizer CMOS Gate Array Logic IC YWPD65658191. Description of this IC is as follows:


138 VDD
137 YTM4
136 YTM5
135 YTM6
134 YTM7
133 CTM0
132 CTM1
131 CTM2
130 CTM3
129 CTM4
128 CTM5
127 CTM6
126 CTM7
125 VDD
124 A7
123 A6
122 A5
121 A4
120 A3
119 A3FN
118 A2
117 A1
116 GND
115 VDD
114 A0
113 SIC1
112 SIC2
111 SIC3
110 CAS
109 RAS
108 VDD
107 SOC1
106 SOC2
105 SOC3
104 OEN1
103 OEN2
102 OEN3
101 OEP1
100 OEP2
99 OEP3
98 MY0
97 MY1
96 MY2
95 MY3
94 MY4
93 GND
GND 139
YTM3 140
YTM2 141
YTM1 142
YTM0 143
VDD 144
CADC 145
CSEL 146
ER 147
WRV 148
LVS 149
VCL 150
VSF1 151
VSF0 152
VA2 153
VA1 154
VA0 155
HSF1 156
HSF0 157
HA2 158
HA1 159
HA0 160
VDD 161
GND 162
CAD7 163
CAD6 164
CAD5 165
CAD4 166
CAD3 167
CAD2 168
CAD1 169
CAD0 170
GND 171
YAD7 172
YAD6 173
YAD5 174
YAD4 175
YAD3 176
YAD2 177
YAD1 178
YAD0 179
WHRS 180
YADC 181
GND 182
CK28 183
VDD 184
(TOP VIEW)
92 VDD
91 MY5
90 MY6
89 MY7
88 MC0
87 MC1
86 MC2
85 MC3
84 MC4
83 MC5
82 MC6
81 MC7
80 TADSV
79 LMY0
78 LMY1
77 LMY2
76 LMY3
75 LMY4
74 LMY5
73 LMY6
72 LMY7
71 NYCK
70 GND
69 VDD
68 LMC0
67 LMC1
66 LMC2
65 LMC3
64 LMC4
63 LMC5
62 LMC6
61 LMC7
60 PAL
59 REG7
58 REG6
57 REG5
56 REG4
55 REG3
54 REG2
53 REG1
52 REG0
51 DAT7
50 DAT6
49 DAT5
48 DAT4
47 GND
1 GND
2 WPC
3 EX
4 EXSY
5 NWHB
6 CLAM
7 TADSH
8 DOC
9 M422
10 V
11 H
12 RST
13 TES1
14 TES2
15 TES3
16 SHDG
17 EXTR
18 HRST
19 FIEL
20 YCKI
21 YCKO
22 RCLK
23 VDD
24 GND
25 RHS3
26 RHS2
27 RHS1
28 RHS0
29 M720
30 YCD7
31 YCD6
32 YCD5
33 YCD4
34 YCD3
35 YCD2
36 YCD1
37 YCD0
38 GND
39 KEY
40 B
41 ST
42 DAT0
43 DAT1
44 DAT2
45 DAT3
46 VDD

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	WPC	O	WPC signal output terminal.
3	EX	I	EX signal input terminal.
4	EXSY	I	EXSY signal input terminal.
5	NWHB	O	NWHB signal output terminal.
6	CLAM	O	CLAM signal output terminal.
7	TADSH	I	TADSH signal input terminal.
8	DOC	I	DOC signal input terminal.
9	M422	I	M422 signal input terminal.
10	V	I	Vertical signal input terminal.
11	H	I	Horizontal signal input terminal.
12	RST	I	Reset Pulse input terminal.

Pin	Name	I/O	Description
13	TES1	I	Test signal output terminals.
14	TES2	I	
15	TES3	I	
16	SHDG	I	SHDG signal input terminal.
17	EXTR	I	EXTR signal input terminal.
18	HRST	I	Horizontal Reset Pulse input terminal.
19	FIEL	I	Field signal input terminal.
20	YCKI	I	Y Clock Pulse input terminal.
21	YCKO	O	Y Clock Pulse output terminal.
22	RCKO	O	Read Clock Pulse output terminal.
23	VDD	–	Power supply terminal.
24	GND	–	Ground terminal.

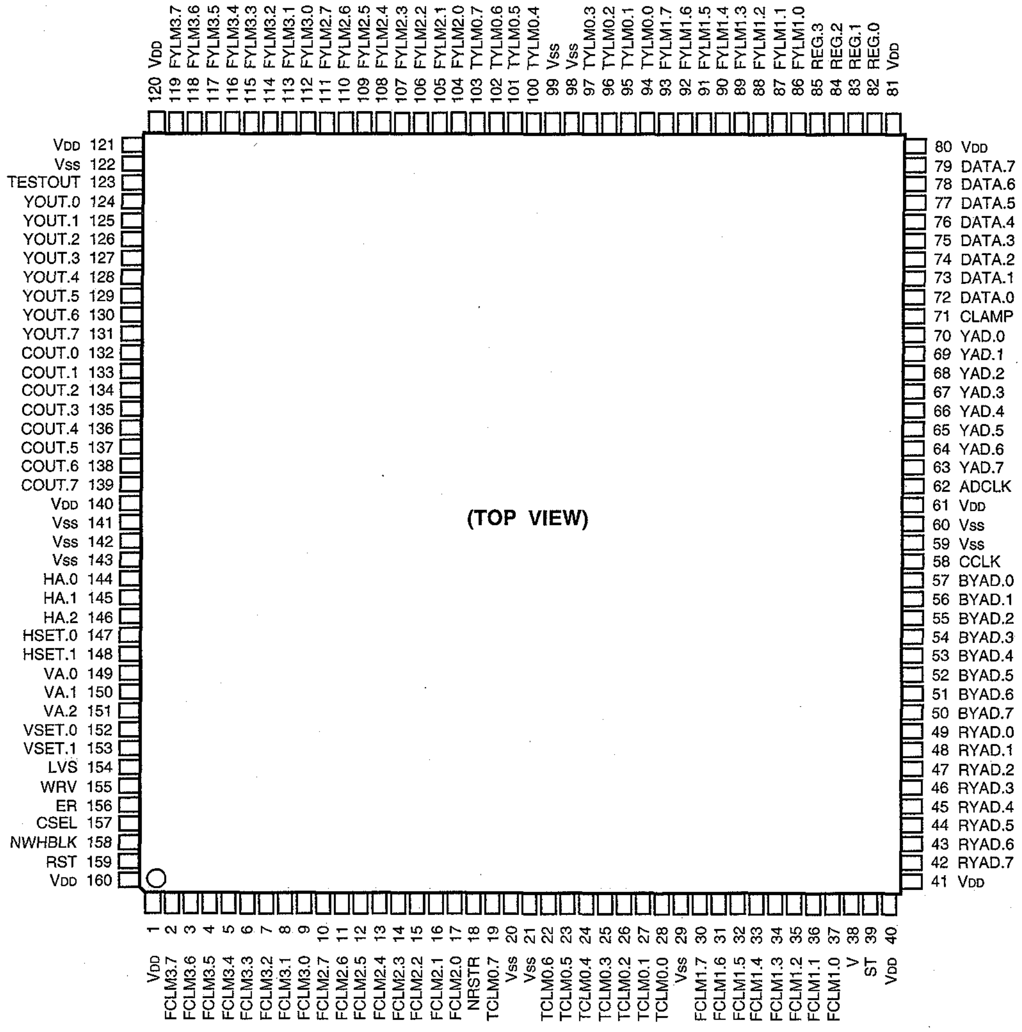
Pin	Name	I/O	Description
25	RHS3	I	RHS signal input terminals.
26	RHS2	I	
27	RHS1	I	
28	RHS0	I	
29	M720	I	NWHB signal output terminal.
30	YCD7	O	YCD signal output terminals. (8-Bit)
31	YCD6	O	
32	YCD5	O	
33	YCD4	O	
34	YCD3	O	
35	YCD2	O	
36	YCD1	O	
37	YCD0	O	
38	GND	–	Ground terminal.
39	KEY	I	KEY signal input terminal.
40	B	I	B signal input terminal.
41	ST	I	Strobe signal input terminal.
42	DAT0	I	Data input terminals. (8-Bit)
43	DAT1	I	
44	DAT2	I	
45	DAT3	I	
46	VDD	–	Power supply terminal.
47	GND	–	Ground terminal.
48	DAT4	I	Data input terminals. (8-Bit)
49	DAT5	I	
50	DAT6	I	
51	DAT7	I	
52	REG0	I	Register signal input terminals. (8-Bit)
53	REG1	I	
54	REG2	I	
55	REG3	I	
56	REG4	I	
57	REG5	I	
58	REG6	I	
59	REG7	I	
60	PAL	I	PAL Selection signal input terminal.
61	LMC7	I	LMC signal input terminals. (8-Bit)
62	LMC6	I	
63	LMC5	I	
64	LMC4	I	
65	LMC3	I	
66	LMC2	I	
67	LMC1	I	
68	LMC0	I	
69	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
70	GND	–	Ground terminal.
71	NYCK	O	Y Clock Pulse output terminal.
72	LMY7	I	LMY signal input terminals. (8-Bit)
73	LMY6	I	
74	LMY5	I	
75	LMY4	I	
76	LMY3	I	
77	LMY2	I	
78	LMY1	I	
79	LMY0	I	
80	TADSV	I	TADSV signal input terminal.
81	MC7	I	MC signal input terminals. (8-Bit)
82	MC6	I	
83	MC5	I	
84	MC4	I	
85	MC3	I	
86	MC2	I	
87	MC1	I	
88	MC0	I	
89	MY7	I	MY signal input terminals. (8-Bit)
90	MY6	I	
91	MY5	I	
92	VDD	–	Power supply terminal.
93	GND	–	Ground terminal.
94	MY4	I	MY signal input terminals. (8-Bit)
95	MY3	I	
96	MY2	I	
97	MY1	I	
98	MY0	I	
99	OEP3	O	Output Enable signal output terminals.
100	OEP2	O	
101	OEP1	O	
102	OEN3	O	Output Enable signal output terminals.
103	OEN2	O	
104	OEN1	O	
105	SOC3	O	SOC signal output terminals.
106	SOC2	O	
107	SOC1	O	
108	VDD	–	Power supply terminal.
109	RAS	O	Row Address Strobe signal output terminal.
110	CAS	O	Column Address Strobe signal output terminal.
111	SIC3	O	Serial Data In Clock output terminals.
112	SIC2	O	
113	SIC1	O	

Pin	Name	I/O	Description
114	A0	O	Address signal output terminals.(9-Bit)
115	VDD	–	Power supply terminal.
116	GND	–	Ground terminal.
117	A1	O	Address signal output terminals.(9-Bit)
118	A2	O	
119	A3FN	O	
120	A3	O	
121	A4	O	
122	A5	O	
123	A6	O	
124	A7	O	
125	VDD	–	Power supply terminal.
126	CTM7	O	CTM signal output terminals. (8-Bit)
127	CTM6	O	
128	CTM5	O	
129	CTM4	O	
130	CTM3	O	
131	CTM2	O	
132	CTM1	O	
133	CTM0	O	
134	YTM7	O	YTM signal output terminals. (8-Bit)
135	YTM6	O	
136	YTM5	O	
137	YTM4	O	
138	VDD	–	Power supply terminal.
139	GND	–	Ground terminal.
140	YTM3	O	YTM signal output terminals. (8-Bit)
141	YTM2	O	
142	YTM1	O	
143	YTM0	O	
144	VDD	–	Power supply terminal.
145	CADC	O	CADC signal output terminal.
146	CSEL	O	CSEL signal output terminal.
147	ER	O	Error signal output terminal.
148	WRV	O	WRV signal output terminal.
149	LVS	O	LVS signal output terminal.
150	VCL	O	VCL Signal output terminal.
151	VSF1	O	VSF signal output terminals.
152	VSF0	O	
153	VA2	O	VA signal output terminals.
154	VA1	O	
155	VA0	O	
156	HSF1	O	HSF signal output terminals.
157	HSF0	O	
158	HA2	O	HA2 signal output terminal.

Pin	Name	I/O	Description
159	HA1	O	HA1 signal output terminal.
160	HA0	O	HA0 signal output terminal.
161	VDD	–	Power supply terminal.
162	GND	–	Ground terminal.
163	CAD7	I	CAD signal input terminals. (8-Bit)
164	CAD6	I	
165	CAD5	I	
166	CAD4	I	
167	CAD3	I	
168	CAD2	I	
169	CAD1	I	
170	CAD0	I	
171	GND	–	Ground terminal.
172	YAD7	I	YAD signal input terminals. (8-Bit)
173	YAD6	I	
174	YAD5	I	
175	YAD4	I	
176	YAD3	I	
177	YAD2	I	
178	YAD1	I	
179	YAD0	I	
180	WHRS	O	WHRS signal output terminal.
181	YADC	O	YADC signal output terminal.
182	GND	–	Ground terminal.
183	CK28	I	Clock Pulse input terminal.
184	VDD	–	Power supply terminal.

2.5. IC27 and IC66 on the Mixer Board are using the 2D Low Pass Filter HCMOS Gate Array Logic IC YWL7A1113.
Description of this IC is as follows:


120 VDD
119 FYLM3.7
118 FYLM3.6
117 FYLM3.5
116 FYLM3.4
115 FYLM3.3
114 FYLM3.2
113 FYLM3.1
112 FYLM3.0
111 FYLM2.7
110 FYLM2.6
109 FYLM2.5
108 FYLM2.4
107 FYLM2.3
106 FYLM2.2
105 FYLM2.1
104 FYLM2.0
103 TYLM0.7
102 TYLM0.6
101 TYLM0.5
100 TYLM0.4
99 Vss
98 Vss
97 TYLM0.3
96 TYLM0.2
95 TYLM0.1
94 TYLM0.0
93 FYLM1.7
92 FYLM1.6
91 FYLM1.5
90 FYLM1.4
89 FYLM1.3
88 FYLM1.2
87 FYLM1.1
86 FYLM1.0
85 REG.3
84 REG.2
83 REG.1
82 REG.0
81 VDD
VDD 121
Vss 122
TESTOUT 123
YOUT.0 124
YOUT.1 125
YOUT.2 126
YOUT.3 127
YOUT.4 128
YOUT.5 129
YOUT.6 130
YOUT.7 131
COUT.0 132
COUT.1 133
COUT.2 134
COUT.3 135
COUT.4 136
COUT.5 137
COUT.6 138
COUT.7 139
VDD 140
Vss 141
Vss 142
Vss 143
HA.0 144
HA.1 145
HA.2 146
HSET.0 147
HSET.1 148
VA.0 149
VA.1 150
VA.2 151
VSET.0 152
VSET.1 153
LVS 154
WRV 155
ER 156
CSEL 157
NWHBLK 158
RST 159
VDD 160
80 VDD
79 DATA.7
78 DATA.6
77 DATA.5
76 DATA.4
75 DATA.3
74 DATA.2
73 DATA.1
72 DATA.0
71 CLAMP
70 YAD.0
69 YAD.1
68 YAD.2
67 YAD.3
66 YAD.4
65 YAD.5
64 YAD.6
63 YAD.7
62 ADCLK
61 VDD
60 Vss
59 Vss
58 CCLK
57 BYAD.0
56 BYAD.1
55 BYAD.2
54 BYAD.3
53 BYAD.4
52 BYAD.5
51 BYAD.6
50 BYAD.7
49 RYAD.0
48 RYAD.1
47 RYAD.2
46 RYAD.3
45 RYAD.4
44 RYAD.5
43 RYAD.6
42 RYAD.7
41 VDD
(TOP VIEW)
1 VDD
2 FCLM3.7
3 FCLM3.6
4 FCLM3.5
5 FCLM3.4
6 FCLM3.3
7 FCLM3.2
8 FCLM3.1
9 FCLM3.0
10 FCLM2.7
11 FCLM2.6
12 FCLM2.5
13 FCLM2.4
14 FCLM2.3
15 FCLM2.2
16 FCLM2.1
17 FCLM2.0
18 NRSTR
19 TCLM0.7
20 Vss
21 Vss
22 TCLM0.6
23 TCLM0.5
24 TCLM0.4
25 TCLM0.3
26 TCLM0.2
27 TCLM0.1
28 TCLM0.0
29 Vss
30 FCLM1.7
31 FCLM1.6
32 FCLM1.5
33 FCLM1.4
34 FCLM1.3
35 FCLM1.2
36 FCLM1.1
37 FCLM1.0
38 V
39 ST
40 VDD

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	FCLM3.7	I	FCLM3 signal input terminals. (8-Bit)
3	FCLM3.6	I	
4	FCLM3.5	I	
5	FCLM3.4	I	
6	FCLM3.3	I	
7	FCLM3.2	I	
8	FCLM3.1	I	
9	FCLM3.0	I	
10	FCLM2.7	I	FCLM2 signal input terminals. (8-Bit)
11	FCLM2.6	I	
12	FCLM2.5	I	
13	FCLM2.4	I	
14	FCLM2.3	I	
15	FCLM2.2	I	

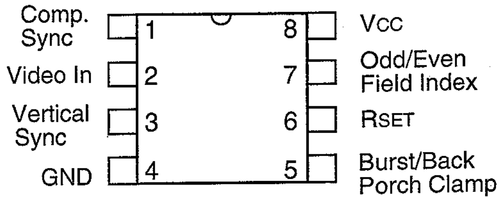
Pin	Name	I/O	Description
16	FCLM2.1	I	FCLM2 signal input terminals. (8-Bit)
17	FCLM2.0	I	
18	NRSTR	O	NRSTR signal output terminal.
19	TCLM0.7	O	TCLM0 signal output terminals. (8-Bit)
20	Vss	–	Ground terminal.
21	Vss	–	Ground terminal.
22	TCLM0.6	O	TCLM0 signal output terminals. (8-Bit)
23	TCLM0.5	O	
24	TCLM0.4	O	
25	TCLM0.3	O	
26	TCLM0.2	O	
27	TCLM0.1	O	
28	TCLM0.0	O	
29	Vss	–	Ground terminal.
30	FCLM1.7	I	FCLM1 signal input terminals. (8-Bit)

Pin	Name	I/O	Description
31	FCLM1.6	I	FCLM1 signal input terminals. (8-Bit)
32	FCLM1.5	I	
33	FCLM1.4	I	
34	FCLM1.3	I	
35	FCLM1.2	I	
36	FCLM1.1	I	
37	FCLM1.0	I	
38	V	I	V signal input terminal.
39	ST	I	Strobe signal input terminal.
40	VDD	–	Power supply terminal.
41	VDD	–	Power supply terminal.
42	RYAD.7	I	R-Y Data input terminals. (8-Bit)
43	RYAD.6	I	
44	RYAD.5	I	
45	RYAD.4	I	
46	RYAD.3	I	
47	RYAD.2	I	
48	RYAD.1	I	
49	RYAD.0	I	
50	BYAD.7	I	B-Y Data input terminals. (8-Bit)
51	BYAD.6	I	
52	BYAD.5	I	
53	BYAD.4	I	
54	BYAD.3	I	
55	BYAD.2	I	
56	BYAD.1	I	
57	BYAD.0	I	
58	CCLK	I	Chroma Clock Pulse input terminal.
59	Vss	–	Ground terminal.
60	Vss	–	Ground terminal.
61	VDD	–	Power supply terminal.
62	ADCLK	I	AD Clock Pulse input terminal.
63	YAD.7	I	Y(Luminance) Data input terminals. (8-Bit)
64	YAD.6	I	
65	YAD.5	I	
66	YAD.4	I	
67	YAD.3	I	
68	YAD.2	I	
69	YAD.1	I	
70	YAD.0	I	
71	CLAMP	I	Clamp Pulse input terminal.
72	DATA.0	I	Data input terminals. (8-Bit)
73	DATA.1	I	
74	DATA.2	I	
75	DATA.3	I	
76	DATA.4	I	
77	DATA.5	I	
78	DATA.6	I	
79	DATA.7	I	
80	VDD	–	Power supply terminal.

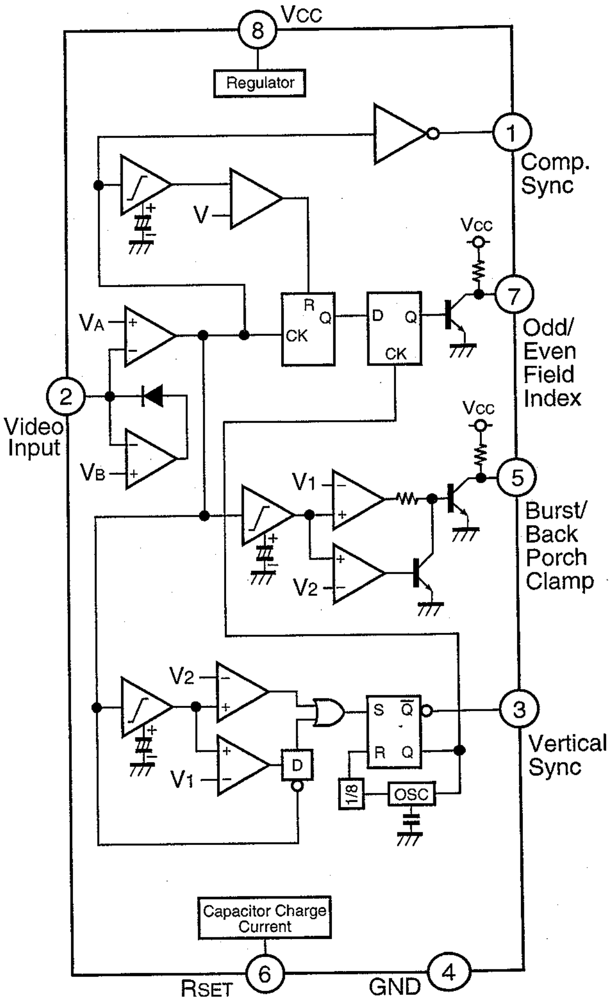
Pin	Name	I/O	Description
81	VDD	–	Power supply terminal.
82	REG.0	I	Register signal input terminals.(4-Bit)
83	REG.1	I	
84	REG.2	I	
85	REG.3	I	
86	FYLM1.0	I	FYLM1 signal input terminals. (8-Bit)
87	FYLM1.1	I	
88	FYLM1.2	I	
89	FYLM1.3	I	
90	FYLM1.4	I	
91	FYLM1.5	I	
92	FYLM1.6	I	
93	FYLM1.7	I	
94	TYLM0.0	O	TYLM0 signal output terminals. (8-Bit)
95	TYLM0.1	O	
96	TYLM0.2	O	
97	TYLM0.3	O	
98	Vss	–	Ground terminal.
99	Vss	–	Ground terminal.
100	TYLM0.4	O	TYLM0 signal output terminals. (8-Bit)
101	TYLM0.5	O	
102	TYLM0.6	O	
103	TYLM0.7	O	
104	FYLM2.0	I	FYLM2 signal input terminals. (8-Bit)
105	FYLM2.1	I	
106	FYLM2.2	I	
107	FYLM2.3	I	
108	FYLM2.4	I	
109	FYLM2.5	I	
110	FYLM2.6	I	
111	FYLM2.7	I	
112	FYLM3.0	I	FYLM3 signal input terminals. (8-Bit)
113	FYLM3.1	I	
114	FYLM3.2	I	
115	FYLM3.3	I	
116	FYLM3.4	I	
117	FYLM3.5	I	
118	FYLM3.6	I	
119	FYLM3.7	I	
120	VDD	–	Power supply terminal.
121	VDD	–	Power supply terminal.
122	Vss	–	Ground terminal.
123	TESTOUT	O	Test signal output terminal.
124	YOUT.0	O	Y(Luminance) Data output terminals. (8-Bit)
125	YOUT.1	O	
126	YOUT.2	O	
127	YOUT.3	O	
128	YOUT.4	O	
129	YOUT.5	O	
130	YOUT.6	O	

Pin	Name	I/O	Description
131	YOUT.7	O	Y Data output terminals. (8-Bit)
132	COUT.0	O	C(Chroma) Data output terminals. (8-Bit)
133	COUT.1	O	
134	COUT.2	O	
135	COUT.3	O	
136	COUT.4	O	
137	COUT.5	O	
138	COUT.6	O	
139	COUT.7	O	
140	VDD	–	Power supply terminal.
141	Vss	–	Ground terminal.
142	Vss	–	Ground terminal.
143	Vss	–	Ground terminal.
144	HA.0	I	HA signal input terminals. (3-Bit)
145	HA.1	I	
146	HA.2	I	
147	HSET.0	I	HSET signal input terminals. (2-Bit)
148	HSET.1	I	
149	VA.0	I	VA signal input terminals. (3-Bit)
150	VA.1	I	
151	VA.2	I	
152	VSET.0	I	VSET signal input terminals. (2-Bit)
153	VSET.1	I	
154	LVS	I	LVS signal input terminal.
155	WRV	I	WRV signal input terminal.
156	ER	I	ER signal input terminal.
157	CSEL	I	Chip Select signal input terminal.
158	NWHBLK	I	Wide Horizontal Blanking Pulse input terminal.
159	RST	I	Reset Pulse input terminal.
160	VDD	–	Power supply terminal.

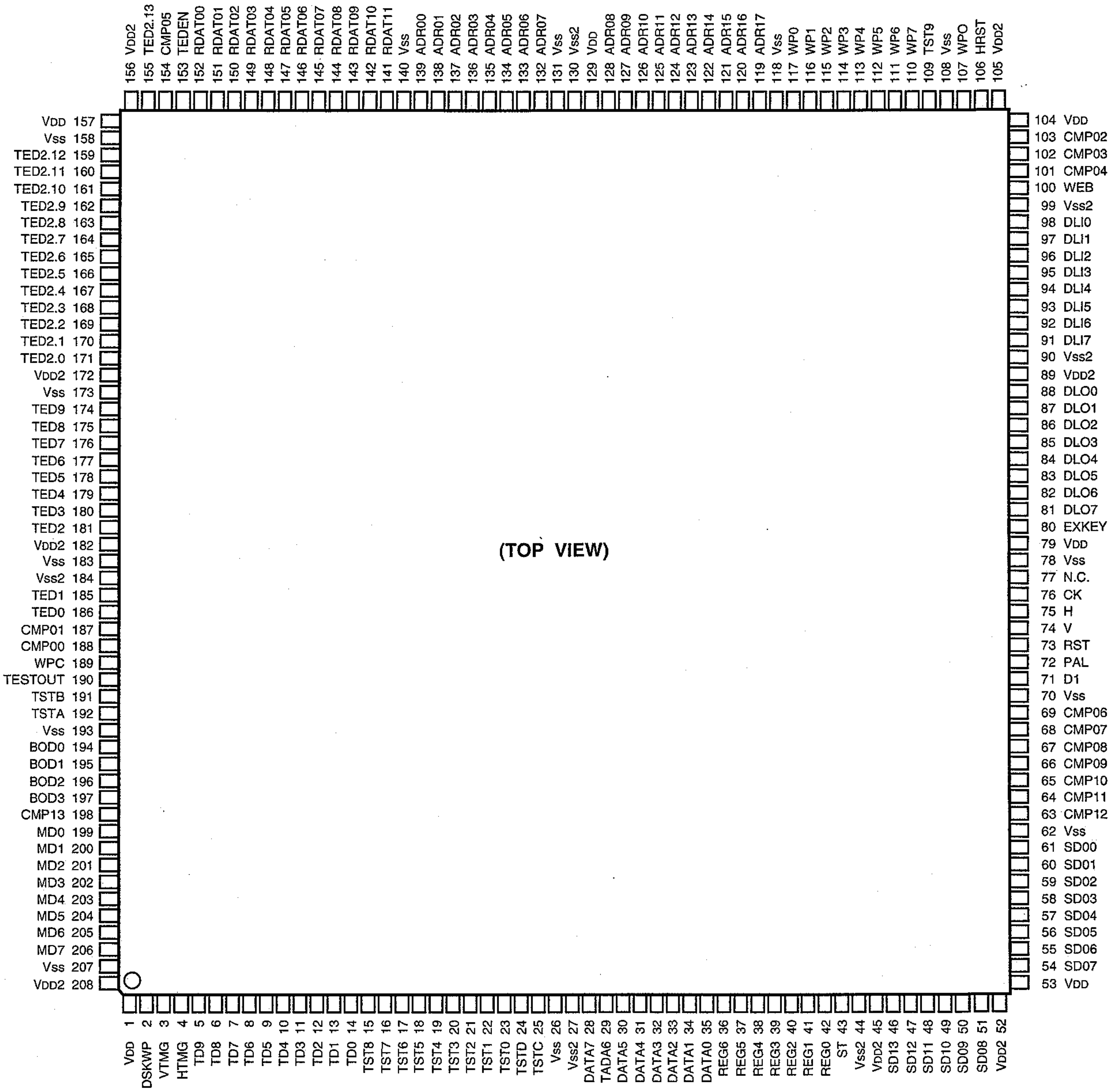
2.6. IC223 on the Mixer Board is using the Sync Separator IC YWLM1881M.
Description of this IC is as follows:


Comp. Sync
Video In
Vertical Sync
GND
1
2
3
4
8
7
6
5
Vcc
Odd/Even Field Index
RSET
Burst/Back Porch Clamp

(TOP VIEW)


8
Vcc
Regulator
1
Comp. Sync
V
Vcc
7
Odd/ Even Field Index
R
Q
CK
D
Q
CK
VA
VB
2
Video Input
Vcc
V1
V2
5
Burst/ Back Porch Clamp
V2
V1
S
Q̄
R
Q
D
1/8
OSC
3
Vertical Sync
Capacitor Charge Current
RSET
6
GND
4

2.7. IC209 on the Mixer Board is using the Wipe Pattern Generator HCMOS Gate Array Logic IC YWL7A1398. Description of this IC is as follows:


156 VDD2
155 TED2.13
154 CMP05
153 TEDEN
152 RDAT00
151 RDAT01
150 RDAT02
149 RDAT03
148 RDAT04
147 RDAT05
146 RDAT06
145 RDAT07
144 RDAT08
143 RDAT09
142 RDAT10
141 RDAT11
140 Vss
139 ADR00
138 ADR01
137 ADR02
136 ADR03
135 ADR04
134 ADR05
133 ADR06
132 ADR07
131 Vss
130 Vss2
129 VDD
128 ADR08
127 ADR09
126 ADR10
125 ADR11
124 ADR12
123 ADR13
122 ADR14
121 ADR15
120 ADR16
119 ADR17
118 Vss
117 WP0
116 WP1
115 WP2
114 WP3
113 WP4
112 WP5
111 WP6
110 WP7
109 TST9
108 Vss
107 WPO
106 HRST
105 VDD2
VDD 157
Vss 158
TED2.12 159
TED2.11 160
TED2.10 161
TED2.9 162
TED2.8 163
TED2.7 164
TED2.6 165
TED2.5 166
TED2.4 167
TED2.3 168
TED2.2 169
TED2.1 170
TED2.0 171
VDD2 172
Vss 173
TED9 174
TED8 175
TED7 176
TED6 177
TED5 178
TED4 179
TED3 180
TED2 181
VDD2 182
Vss 183
Vss2 184
TED1 185
TED0 186
CMP01 187
CMP00 188
WPC 189
TESTOUT 190
TSTB 191
TSTA 192
Vss 193
BOD0 194
BOD1 195
BOD2 196
BOD3 197
CMP13 198
MD0 199
MD1 200
MD2 201
MD3 202
MD4 203
MD5 204
MD6 205
MD7 206
Vss 207
VDD2 208
(TOP VIEW)
104 VDD
103 CMP02
102 CMP03
101 CMP04
100 WEB
99 Vss2
98 DLI0
97 DLI1
96 DLI2
95 DLI3
94 DLI4
93 DLI5
92 DLI6
91 DLI7
90 Vss2
89 VDD2
88 DLO0
87 DLO1
86 DLO2
85 DLO3
84 DLO4
83 DLO5
82 DLO6
81 DLO7
80 EXKEY
79 VDD
78 Vss
77 N.C.
76 CK
75 H
74 V
73 RST
72 PAL
71 D1
70 Vss
69 CMP06
68 CMP07
67 CMP08
66 CMP09
65 CMP10
64 CMP11
63 CMP12
62 Vss
61 SD00
60 SD01
59 SD02
58 SD03
57 SD04
56 SD05
55 SD06
54 SD07
53 VDD
1 VDD
2 DSKWP
3 VTMG
4 HTMG
5 TD9
6 TD8
7 TD7
8 TD6
9 TD5
10 TD4
11 TD3
12 TD2
13 TD1
14 TD0
15 TST8
16 TST7
17 TST6
18 TST5
19 TST4
20 TST3
21 TST2
22 TST1
23 TST0
24 TSTD
25 TSTC
26 Vss
27 Vss2
28 DATA7
29 TADA6
30 DATA5
31 DATA4
32 DATA3
33 DATA2
34 DATA1
35 DATA0
36 REG6
37 REG5
38 REG4
39 REG3
40 REG2
41 REG1
42 REG0
43 ST
44 Vss2
45 VDD2
46 SD13
47 SD12
48 SD11
49 SD10
50 SD09
51 SD08
52 VDD2

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	DSKWP	O	DSKWP signal output terminal.
3	VTMG	O	VTMG signal output terminal.
4	HTMG	O	HTMG signal output terminal.
5	TD9	I	TD signal input terminals. (10-Bit)
6	TD8	I	
7	TD7	I	
8	TD6	I	
9	TD5	I	
10	TD4	I	

Pin	Name	I/O	Description
11	TD3	I	TD signal input terminals. (10-Bit)
12	TD2	I	
13	TD1	I	
14	TD0	I	
15	TST8	I	Test signal input terminals.
16	TST7	I	
17	TST6	I	
18	TST5	I	
19	TST4	I	
20	TST3	I	

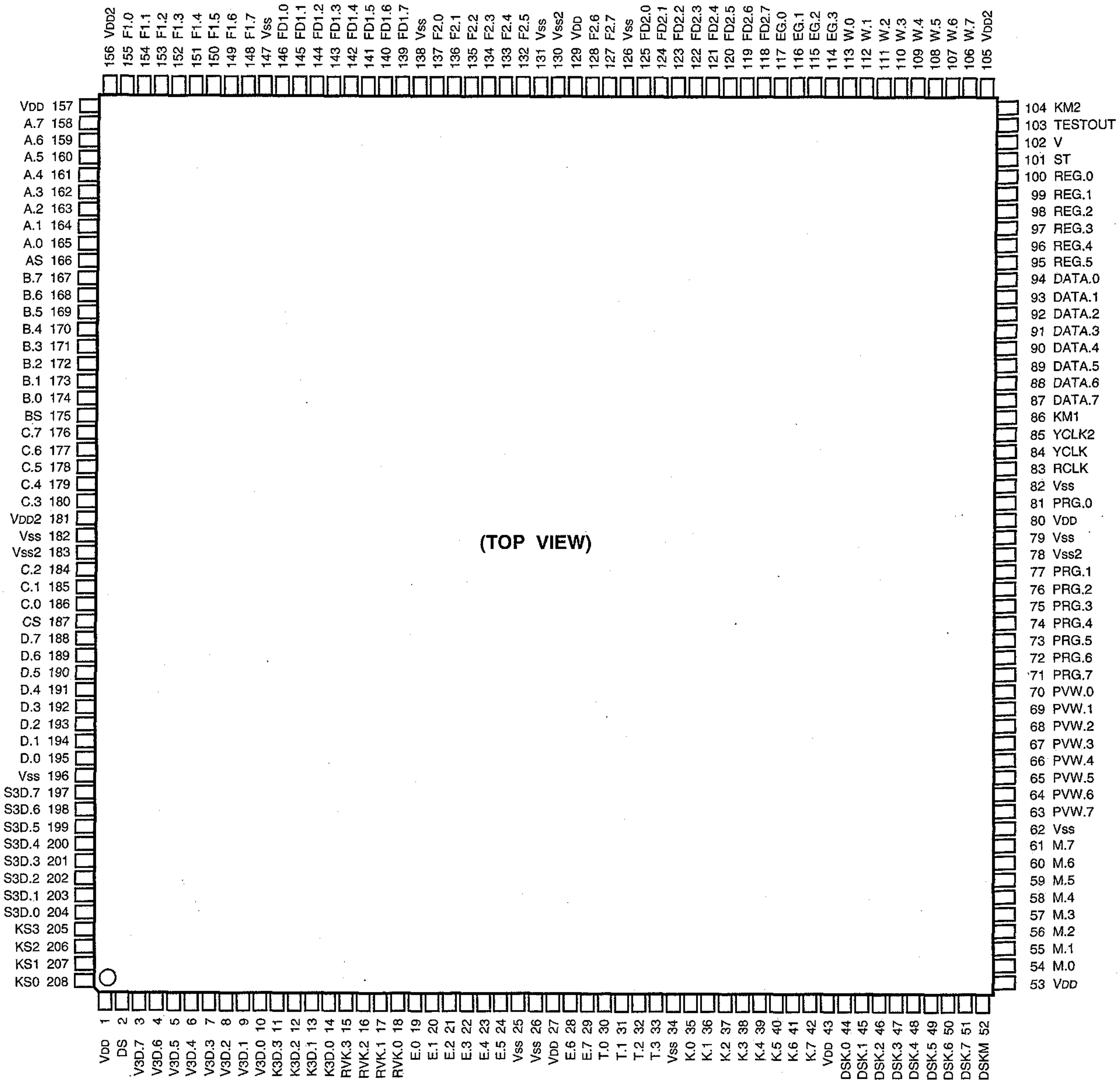
Pin	Name	I/O	Description
21	TST2	I	Test signal input terminals.
22	TST1	I	
23	TST0	I	
24	TSTD	I	
25	TSTC	I	
26	Vss	–	Ground terminal.
27	Vss2	–	Ground terminal.
28	DATA7	I	Data input terminals. (8-Bit)
29	DATA6	I	
30	DATA5	I	
31	DATA4	I	
32	DATA3	I	
33	DATA2	I	
34	DATA1	I	
35	DATA0	I	
36	REG6	I	Register signal input terminals. (7-Bit)
37	REG5	I	
38	REG4	I	
39	REG3	I	
40	REG2	I	
41	REG1	I	
42	REG0	I	
43	ST	I	Strobe signal input terminal.
44	Vss2	–	Ground terminal.
45	VDD2	–	Power supply terminal.
46	SD13	I	SD signal input terminals. (14-Bit)
47	SD12	I	
48	SD11	I	
49	SD10	I	
50	SD09	I	
51	SD08	I	
52	VDD2	–	Power supply terminal.
53	VDD	–	Power supply terminal.
54	SD07	I	SD signal input terminals. (14-Bit)
55	SD06	I	
56	SD05	I	
57	SD04	I	
58	SD03	I	
59	SD02	I	
60	SD01	I	
61	SD00	I	
62	Vss	–	Ground terminal.
63	CMP12	O	CMP signal output terminals. (13-Bit)
64	CMP11	O	
65	CMP10	O	
66	CMP09	O	
67	CMP08	O	
68	CMP07	O	
69	CMP06	O	
70	Vss	–	Ground terminal.

Pin	Name	I/O	Description
71	D1	I	D1 signal input terminal.
72	PAL	I	PAL Select signal input terminal.
73	RST	I	Reset Pulse input terminal.
74	V	I	Vertical signal input terminal.
75	H	I	Horizontal signal input terminal.
76	CK	I	Clock Pulse input terminal.
77	N.C.	–	Non connection.
78	Vss	–	Ground terminal.
79	VDD	–	Power supply terminal.
80	EXKEY	I	External Key signal input terminal.
81	DLO7	I	DL signal input terminals. (8-Bit)
82	DLO6	I	
83	DLO5	I	
84	DLO4	I	
85	DLO3	I	
86	DLO2	I	
87	DLO1	I	
88	DLO0	I	
89	VDD2	–	Power supply terminal.
90	Vss2	–	Ground terminal.
91	DLI7	O	DL signal output terminals. (8-Bit)
92	DLI6	O	
93	DLI5	O	
94	DLI4	O	
95	DLI3	O	
96	DLI2	O	
97	DLI1	O	
98	DLI0	O	
99	Vss2	–	Ground terminal.
100	WEB	O	WEB signal output terminal.
101	CMP04	O	CMP signal output terminals. (13-Bit)
102	CMP03	O	
103	CMP02	O	
104	VDD	–	Power supply terminal.
105	VDD2	–	Power supply terminal.
106	HRST	O	H Reset Pulse output terminal.
107	WPO	O	WPO signal output terminal.
108	Vss	–	Ground terminal.
109	TST9	I	Test signal input terminal.
110	WP7	I	Wipe Pattern signal input terminals. (8-Bit)
111	WP6	I	
112	WP5	I	
113	WP4	I	
114	WP3	I	
115	WP2	I	
116	WP1	I	
117	WP0	I	
118	Vss	–	Ground terminal.
119	ADR17	O	Address signal output terminals. (18-Bit)
120	ADR16	O	

Pin	Name	I/O	Description
121	ADR15	O	Address signal output terminals. (18-Bit)
122	ADR14	O	
123	ADR13	O	
124	ADR12	O	
125	ADR11	O	
126	ADR10	O	
127	ADR09	O	
128	ADR08	O	
129	VDD	–	Power supply terminal.
130	Vss2	–	Ground terminal.
131	Vss	–	Ground terminal.
132	ADR07	O	Address signal output terminals. (18-Bit)
133	ADR06	O	
134	ADR05	O	
135	ADR04	O	
136	ADR03	O	
137	ADR02	O	
138	ADR01	O	
139	ADR00	O	
140	Vss	–	Ground terminal.
141	RDAT11	I	R Data input terminals. (12-Bit)
142	RDAT10	I	
143	RDAT09	I	
144	RDAT08	I	
145	RDAT07	I	
146	RDAT06	I	
147	RDAT05	I	
148	RDAT04	I	
149	RDAT03	I	
150	RDAT02	I	
151	RDAT01	I	
152	RDAT00	I	
153	TEDEN	I	TEDEN signal input terminal.
154	CMP05	O	CMP signal output terminals. (14-Bit)
155	TED2.13	O	TED2 signal output terminals. (14-Bit)
156	VDD2	–	Power supply terminal.
157	VDD	–	Power supply terminal.
158	Vss	–	Ground terminal.
159	TED2.12	O	TED2 signal output terminals. (14-Bit)
160	TED2.11	O	
161	TED2.10	O	
162	TED2.9	O	
163	TED2.8	O	
164	TED2.7	O	
165	TED2.6	O	
166	TED2.5	O	
167	TED2.4	O	
168	TED2.3	O	
169	TED2.2	O	
170	TED2.1	O	

Pin	Name	I/O	Description
171	TED2.1	O	TED2 signal output terminals. (14-Bit)
172	VDD2	–	Power supply terminal.
173	Vss	–	Ground terminal.
174	TED9	O	TED signal onput terminals. (10-Bit)
175	TED8	O	
176	TED7	O	
177	TED6	O	
178	TED5	O	
179	TED4	O	
180	TED3	O	
181	TED2	O	
182	VDD2	–	Power supply terminal.
183	Vss	–	Ground terminal.
184	Vss2	–	Ground terminal.
185	TED1	O	TED signal onput terminals. (10-Bit)
186	TED0	O	
187	CMP01	O	CMP signal onput terminals. (14-Bit)
188	CMP00	O	
189	WPC	O	WPC signal output terminal.
190	TESTOUT	O	Test signal output terminal.
191	TSTB	I	Test signal input terminals.
192	TSTA	I	
193	Vss	–	Ground terminal.
194	BOD0	O	BOD signal output terminals. (4-Bit)
195	BOD1	O	
196	BOD2	O	
197	BOD3	O	
198	CMP13	O	CMP signal output terminals. (14-Bit)
199	MD0	O	MD signal output terminals. (8-Bit)
200	MD1	O	
201	MD2	O	
202	MD3	O	
203	MD4	O	
204	MD5	O	
205	MD6	O	
206	MD7	O	
207	Vss	–	Ground terminal.
208	VDD	–	Power supply terminal.

2.8. IC201 on the Mixer Board is using the HCMOS Gate Array Logic IC YWL7A1399.
Description of this IC is as follows:


(TOP VIEW)
156 VDD2
155 F1.0
154 F1.1
153 F1.2
152 F1.3
151 F1.4
150 F1.5
149 F1.6
148 F1.7
147 Vss
146 FD1.0
145 FD1.1
144 FD1.2
143 FD1.3
142 FD1.4
141 FD1.5
140 FD1.6
139 FD1.7
138 Vss
137 F2.0
136 F2.1
135 F2.2
134 F2.3
133 F2.4
132 F2.5
131 Vss
130 Vss2
129 VDD
128 F2.6
127 F2.7
126 Vss
125 FD2.0
124 FD2.1
123 FD2.2
122 FD2.3
121 FD2.4
120 FD2.5
119 FD2.6
118 FD2.7
117 EG.0
116 EG.1
115 EG.2
114 EG.3
113 W.0
112 W.1
111 W.2
110 W.3
109 W.4
108 W.5
107 W.6
106 W.7
105 VDD2
VDD 157
A.7 158
A.6 159
A.5 160
A.4 161
A.3 162
A.2 163
A.1 164
A.0 165
AS 166
B.7 167
B.6 168
B.5 169
B.4 170
B.3 171
B.2 172
B.1 173
B.0 174
BS 175
C.7 176
C.6 177
C.5 178
C.4 179
C.3 180
VDD2 181
Vss 182
Vss2 183
C.2 184
C.1 185
C.0 186
CS 187
D.7 188
D.6 189
D.5 190
D.4 191
D.3 192
D.2 193
D.1 194
D.0 195
Vss 196
S3D.7 197
S3D.6 198
S3D.5 199
S3D.4 200
S3D.3 201
S3D.2 202
S3D.1 203
S3D.0 204
KS3 205
KS2 206
KS1 207
KS0 208
104 KM2
103 TESTOUT
102 V
101 ST
100 REG.0
99 REG.1
98 REG.2
97 REG.3
96 REG.4
95 REG.5
94 DATA.0
93 DATA.1
92 DATA.2
91 DATA.3
90 DATA.4
89 DATA.5
88 DATA.6
87 DATA.7
86 KM1
85 YCLK2
84 YCLK
83 RCLK
82 Vss
81 PRG.0
80 VDD
79 Vss
78 Vss2
77 PRG.1
76 PRG.2
75 PRG.3
74 PRG.4
73 PRG.5
72 PRG.6
71 PRG.7
70 PVW.0
69 PVW.1
68 PVW.2
67 PVW.3
66 PVW.4
65 PVW.5
64 PVW.6
63 PVW.7
62 Vss
61 M.7
60 M.6
59 M.5
58 M.4
57 M.3
56 M.2
55 M.1
54 M.0
53 VDD
VDD 1
DS 2
V3D.7 3
V3D.6 4
V3D.5 5
V3D.4 6
V3D.3 7
V3D.2 8
V3D.1 9
V3D.0 10
K3D.3 11
K3D.2 12
K3D.1 13
K3D.0 14
RVK.3 15
RVK.2 16
RVK.1 17
RVK.0 18
E.0 19
E.1 20
E.2 21
E.3 22
E.4 23
E.5 24
Vss 25
Vss 26
VDD 27
E.6 28
E.7 29
T.0 30
T.1 31
T.2 32
T.3 33
Vss 34
K.0 35
K.1 36
K.2 37
K.3 38
K.4 39
K.5 40
K.6 41
K.7 42
VDD 43
DSK.0 44
DSK.1 45
DSK.2 46
DSK.3 47
DSK.4 48
DSK.5 49
DSK.6 50
DSK.7 51
DSKM 52

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	DS	I	Data Strobe signal input terminal.
3	V3D.7	I	V3D signal input terminals. (8-Bit)
4	V3D.6	I	
5	V3D.5	I	
6	V3D.4	I	
7	V3D.3	I	
8	V3D.2	I	
9	V3D.1	I	
10	V3D.0	I	

Pin	Name	I/O	Description
11	K3D.3	I	K3D signal input terminals. (4-Bit)
12	K3D.2	I	
13	K3D.1	I	
14	K3D.0	I	
15	RVK.3	I	RVK signal input terminals. (4-Bit)
16	RVK.3	I	
17	RVK.3	I	
18	RVK.3	I	
19	E.0	I	E signal input terminals. (8-Bit)
20	E.1	I	

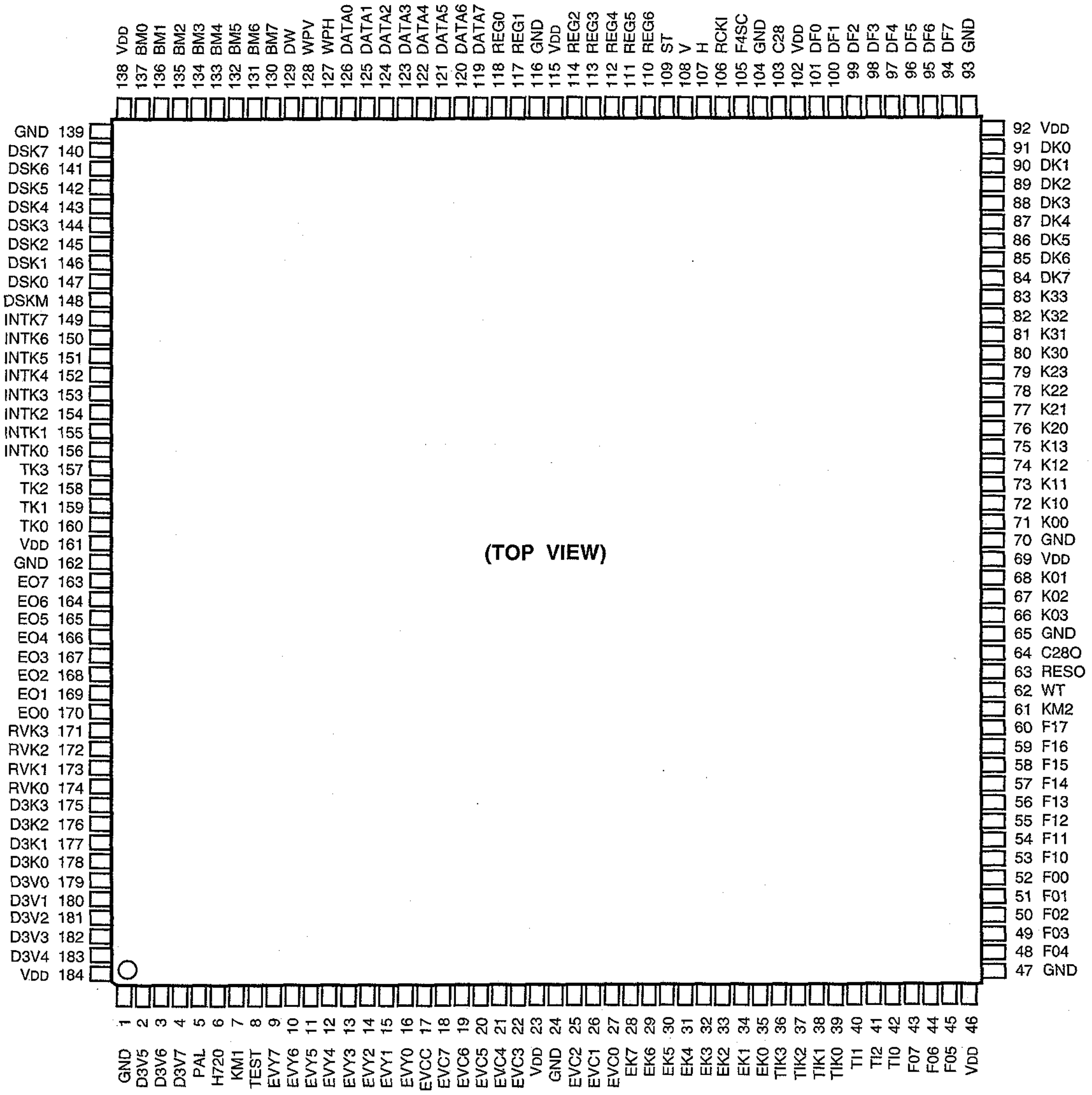
Pin	Name	I/O	Description
21	E.2	I	E signal input terminals. (8-Bit)
22	E.3	I	
23	E.4	I	
24	E.5	I	
25	Vss	–	Ground terminal.
26	Vss	–	Ground terminal.
27	VDD	–	Power supply terminal.
28	E.6	I	E signal input terminals. (8-Bit)
29	E.7	I	
30	T.0	I	T signal input terminals. (4-Bit)
31	T.1	I	
32	T.2	I	
33	T.3	I	
34	Vss	–	Ground terminal.
35	K.0	O	K signal output terminals. (8-Bit)
36	K.1	O	
37	K.2	O	
38	K.3	O	
39	K.4	O	
40	K.5	O	
41	K.6	O	
42	K.7	O	
43	VDD	–	Power supply terminal.
44	DSK.0	I	Down Stream Key signal input terminals. (8-Bit)
45	DSK.1	I	
46	DSK.2	I	
47	DSK.3	I	
48	DSK.4	I	
49	DSK.5	I	
50	DSK.6	I	
51	DSK.7	I	
52	DSKM	I	DSKM signal input terminal.
53	VDD	–	Power supply terminal.
54	M.0	I	M signal input terminals. (8-Bit)
55	M.1	I	
56	M.2	I	
57	M.3	I	
58	M.4	I	
59	M.5	I	
60	M.6	I	
61	M.7	I	
62	Vss	–	Ground terminal.
63	PVW.7	O	PVW signal output terminals. (8-Bit)
64	PVW.6	O	
65	PVW.5	O	
66	PVW.4	O	
67	PVW.3	O	
68	PVW.2	O	
69	PVW.1	O	
70	PVW.0	O	

Pin	Name	I/O	Description
71	PRG.7	O	Program signal output terminals. (8-Bit)
72	PRG.6	O	
73	PRG.5	O	
74	PRG.4	O	
75	PRG.3	O	
76	PRG.2	O	
77	PRG.1	O	
78	Vss2	–	Ground terminal.
79	Vss	–	Ground terminal.
80	VDD	–	Power supply terminal.
81	PRG.0	O	Program signal output terminals. (8-Bit)
82	Vss	–	Ground terminal.
83	RCLK	I	Read Clock Pulse input terminal.
84	YCLK	I	Y Clock Pulse input terminal.
85	YCLK2	I	Y Clock Pulse 2 input terminal.
86	KM1	I	KM1 signal input terminal.
87	DATA.7	I	Data input terminals. (8-Bit)
88	DATA.5	I	
89	DATA.4	I	
90	DATA.4	I	
91	DATA.3	I	
92	DATA.2	I	
93	DATA.1	I	
94	DATA.0	I	
95	REG.5	I	Register signal input terminals.(6-Bit)
96	REG.4	I	
97	REG.3	I	
98	REG.2	I	
99	REG.1	I	
100	REG.0	I	
101	ST	I	Strobe signal input terminal.
102	V	I	V signal input terminal.
103	TESTOUT	O	Test signal output terminal.
104	KM2	I	KM2 signal input terminal.
105	VDD2	–	Power supply terminal.
106	W.7	I	W signal input terminals. (8-Bit)
107	W.6	I	
108	W.5	I	
109	W.4	I	
110	W.3	I	
111	W.2	I	
112	W.1	I	
113	W.0	I	
114	EG.3	I	EG signal input terminals. (4-Bit)
115	EG.2	I	
116	EG.1	I	
117	EG.0	I	
118	FD2.7	I	FD2 signal input terminals. (8-Bit)
119	FD2.6	I	

Pin	Name	I/O	Description
120	FD2.5	I	FD2 signal input terminals. (8-Bit)
121	FD2.4	I	
122	FD2.3	I	
123	FD2.2	I	
124	FD2.1	I	
125	FD2.0	I	
126	Vss	–	Ground terminal.
127	F2.7	O	F2 signal output terminals. (8-Bit)
128	F2.6	O	
129	VDD	–	Power supply terminal.
130	Vss2	–	Ground terminal.
131	Vss	–	Ground terminal.
132	F2.5	O	F2 signal output terminals. (8-Bit)
133	F2.4	O	
134	F2.3	O	
135	F2.2	O	
136	F2.1	O	
137	F2.0	O	
138	Vss	–	Ground terminal.
139	FD1.7	I	FD1 signal input terminals. (8-Bit)
140	FD1.6	I	
141	FD1.5	I	
142	FD1.4	I	
143	FD1.3	I	
144	FD1.2	I	
145	FD1.1	I	
146	FD1.0	I	
147	Vss	–	Ground terminal.
148	F1.7	O	F1 signal output terminals. (8-Bit)
149	F1.6	O	
150	F1.5	O	
151	F1.4	O	
152	F1.3	O	
153	F1.2	O	
154	F1.1	O	
155	F1.0	O	
156	VDD2	–	Power supply terminal.
157	VDD	–	Power supply terminal.
158	A.7	I	A signal input terminals. (8-Bit)
159	A.6	I	
160	A.5	I	
161	A.4	I	
162	A.3	I	
163	A.2	I	
164	A.1	I	
165	A.0	I	
166	AS	I	AS signal input terminal.
167	B.7	I	B signal input terminals. (8-Bit)
168	B.6	I	
169	B.5	I	

Pin	Name	I/O	Description
170	B.4	I	B signal input terminals. (8-Bit)
171	B.3	I	
172	B.2	I	
173	B.1	I	
174	B.0	I	
175	BS	I	BS signal input terminal.
176	C.7	I	C signal input terminals. (8-Bit)
177	C.6	I	
178	C.5	I	
179	C.4	I	
180	C.3	I	
181	VDD2	–	Power supply terminal.
182	Vss	–	Ground terminal.
183	Vss2	–	Ground terminal.
184	C.2	I	C signal input terminals. (8-Bit)
185	C.1	I	
186	C.0	I	
187	CS	I	CS signal input terminal.
188	D.7	I	Data input terminals. (8-Bit)
189	D.6	I	
190	D.5	I	
191	D.4	I	
192	D.3	I	
193	D.2	I	
194	D.1	I	
195	D.0	I	
196	Vss	–	Ground terminal.
197	S3D.7	O	S3D signal output terminals. (8-Bit)
198	S3D.6	O	
199	S3D.5	O	
200	S3D.4	O	
201	S3D.3	O	
202	S3D.2	O	
203	S3D.1	O	
204	S3D.0	O	
205	KS3	O	KS signal output terminals. (4-Bit)
206	KS2	O	
207	KS1	O	
208	KS0	O	

2.9. IC202 on the Mixer Board is using the CMOS Gate Array Logic IC YWPD65664106.
Description of this IC is as follows:


138 VDD
137 BM0
136 BM1
135 BM2
134 BM3
133 BM4
132 BM5
131 BM6
130 BM7
129 DW
128 WPV
127 WPH
126 DATA0
125 DATA1
124 DATA2
123 DATA3
122 DATA4
121 DATA5
120 DATA6
119 DATA7
118 REG0
117 REG1
116 GND
115 VDD
114 REG2
113 REG3
112 REG4
111 REG5
110 REG6
109 ST
108 V
107 H
106 RCKI
105 F4SC
104 GND
103 C28
102 VDD
101 DF0
100 DF1
99 DF2
98 DF3
97 DF4
96 DF5
95 DF6
94 DF7
93 GND
GND 139
DSK7 140
DSK6 141
DSK5 142
DSK4 143
DSK3 144
DSK2 145
DSK1 146
DSK0 147
DSKM 148
INTK7 149
INTK6 150
INTK5 151
INTK4 152
INTK3 153
INTK2 154
INTK1 155
INTK0 156
TK3 157
TK2 158
TK1 159
TK0 160
VDD 161
GND 162
EO7 163
EO6 164
EO5 165
EO4 166
EO3 167
EO2 168
EO1 169
EO0 170
RVK3 171
RVK2 172
RVK1 173
RVK0 174
D3K3 175
D3K2 176
D3K1 177
D3K0 178
D3V0 179
D3V1 180
D3V2 181
D3V3 182
D3V4 183
VDD 184
(TOP VIEW)
92 VDD
91 DK0
90 DK1
89 DK2
88 DK3
87 DK4
86 DK5
85 DK6
84 DK7
83 K33
82 K32
81 K31
80 K30
79 K23
78 K22
77 K21
76 K20
75 K13
74 K12
73 K11
72 K10
71 K00
70 GND
69 VDD
68 K01
67 K02
66 K03
65 GND
64 C28O
63 RESO
62 WT
61 KM2
60 F17
59 F16
58 F15
57 F14
56 F13
55 F12
54 F11
53 F10
52 F00
51 F01
50 F02
49 F03
48 F04
47 GND
1 GND
2 D3V5
3 D3V6
4 D3V7
5 PAL
6 H720
7 KM1
8 TEST
9 EVY7
10 EVY6
11 EVY5
12 EVY4
13 EVY3
14 EVY2
15 EVY1
16 EVY0
17 EVCC
18 EVC7
19 EVC6
20 EVC5
21 EVC4
22 EVC3
23 VDD
24 GND
25 EVC2
26 EVC1
27 EVC0
28 EK7
29 EK6
30 EK5
31 EK4
32 EK3
33 EK2
34 EK1
35 EK0
36 TIK3
37 TIK2
38 TIK1
39 TIK0
40 TI1
41 TI2
42 TI0
43 F07
44 F06
45 F05
46 VDD

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	D3V5	I	D3V signal input terminals. (8-Bit)
3	D3V6	I	
4	D3V7	I	
5	PAL	I	PAL Selection signal input terminal.
6	H720	I	H720 signal input terminal.
7	KM1	O	KM1 signal output terminal.
8	TEST	I	Test signal input terminal.
9	EVY7	I	EVY signal input terminals. (8-Bit)
10	EVY6	I	
11	EVY5	I	
12	EVY4	I	

Pin	Name	I/O	Description
13	EVY3	I	EVY signal input terminals. (8-Bit)
14	EVY2	I	
15	EVY1	I	
16	EVY0	I	
17	EVCC	O	EVCC signal output terminal.
18	EVC7	I	EVC signal input terminals. (8-Bit)
19	EVC6	I	
20	EVC5	I	
21	EVC4	I	
22	EVC3	I	
23	VDD	–	Power supply terminal.
24	GND	–	Ground terminal.

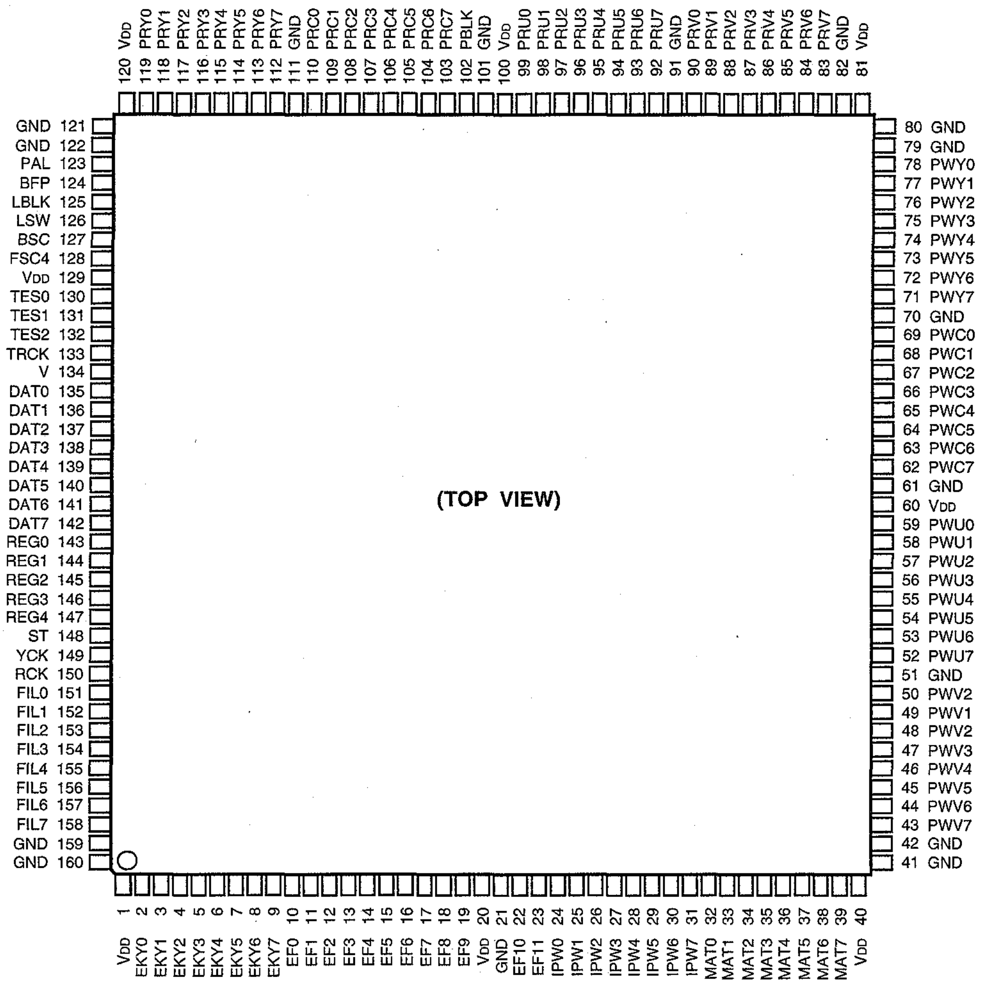
Pin	Name	I/O	Description
25	EVC2	I	EVC signal input terminals. (8-Bit)
26	EVC1	I	
27	EVC0	I	
28	EK7	I	EK signal input terminals. (8-Bit)
29	EK6	I	
30	EK5	I	
31	EK4	I	
32	EK3	I	
33	EK2	I	
34	EK1	I	
35	EK0	I	
36	TIK3	I	TIK signal input terminals. (4-Bit)
37	TIK2	I	
38	TIK1	I	
39	TIK0	I	
40	TI1	I	TI signal input terminals. (3-Bit)
41	TI2	I	
42	TI0	I	
43	F07	I	F0 signal input terminals. (8-Bit)
44	F06	I	
45	F05	I	
46	VDD	–	Power supply terminal.
47	GND	–	Ground terminal.
48	F04	I	F0 signal input terminals. (8-Bit)
49	F03	I	
50	F02	I	
51	F01	I	
52	F00	I	
53	F10	I	F1 signal input terminals. (8-Bit)
54	F11	I	
55	F12	I	
56	F13	I	
57	F14	I	
58	F15	I	
59	F16	I	
60	F17	I	
61	KM2	O	KM2 signal output terminal.
62	WT	O	WT signal output terminal.
63	RESO	O	Reset Pulse output terminal.
64	C28O	O	C28O signal output terminal.
65	GND	–	Ground terminal.
66	K03	O	K0 signal output terminals. (4-Bit)
67	K02	O	
68	K01	O	
69	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
70	GND	–	Ground terminal.
71	K00	O	K0 signal output terminals. (4-Bit)
72	K10	I	K1 signal input terminals. (4-Bit)
73	K11	I	
74	K12	I	
75	K13	I	
76	K20	I	K2 signal input terminals. (4-Bit)
77	K21	I	
78	K22	I	
79	K23	I	
80	K30	I	K3 signal input terminals. (4-Bit)
81	K31	I	
82	K32	I	
83	K33	I	
84	DK7	O	DK signal output terminals. (8-Bit)
85	DK6	O	
86	DK5	O	
87	DK4	O	
88	DK3	O	
89	DK2	O	
90	DK1	O	
91	DK0	O	
92	VDD	–	Power supply terminal.
93	GND	–	Ground terminal.
94	DF7	O	DF signal output terminals. (8-Bit)
95	DF6	O	
96	DF5	O	
97	DF4	O	
98	DF3	O	
99	DF2	O	
100	DF1	O	
101	DF0	O	
102	VDD	–	Power supply terminal.
103	C28	I	C28 signal input terminal.
104	GND	–	Ground terminal.
105	F4SC	I	F4SC signal input terminal.
106	RCKI	I/O	Read Clock Pulse input/output terminal.
107	H	I	Horizontal signal input terminal.
108	V	I	Vertical signal input terminal.
109	ST	I	Strobe signal input terminal.
110	REG6	I	Register signal input terminals. (7-Bit)
111	REG5	I	
112	REG4	I	
113	REG3	I	
114	REG2	I	

Pin	Name	I/O	Description
115	VDD	–	Power supply terminal.
116	GND	–	Ground terminal.
117	REG1	I	Register signal input terminals. (7-Bit)
118	REG0	I	
119	DATA7	I	Data input terminals. (8-Bit)
120	DATA6	I	
121	DATA5	I	
122	DATA4	I	
123	DATA3	I	
124	DATA2	I	
125	DATA1	I	
126	DATA0	I	
127	WPH	I	WPH signal input terminal.
128	WPV	I	WPV signal input terminal.
129	DW	I	DW signal input terminal.
130	BM7	O	BM signal input terminals. (8-Bit)
131	BM6	O	
132	BM5	O	
133	BM4	O	
134	BM3	O	
135	BM2	O	
136	BM1	O	
137	BM0	O	
138	VDD	–	Power supply terminal.
139	GND	–	Ground terminal.
140	DSK7	O	Down Stream Key signal output terminals. (8-Bit)
141	DSK6	O	
142	DSK5	O	
143	DSK4	O	
144	DSK3	O	
145	DSK2	O	
146	DSK1	O	
147	DSK0	O	
148	DSKM	O	DSKM signal output terminal.
149	INTK7	I	INTK signal input terminals. (8-Bit)
150	INTK6	I	
151	INTK5	I	
152	INTK4	I	
153	INTK3	I	
154	INTK2	I	
155	INTK1	I	
156	INTK0	I	
157	TK3	O	TK signal output terminals. (4-Bit)
158	TK2	O	
159	TK1	O	

Pin	Name	I/O	Description
160	TK0	O	TK signal output terminals. (4-Bit)
161	VDD	–	Power supply terminal.
162	GND	–	Ground terminal.
163	EO7	O	EO signal output terminals. (8-Bit)
164	EO6	O	
165	EO5	O	
166	EO4	O	
167	EO3	O	
168	EO2	O	
169	EO1	O	
170	EO0	O	
171	RVK3	I	RVK signal input terminals. (4-Bit)
172	RVK2	I	
173	RVK1	I	
174	RVK0	I	
175	D3K3	I	D3K signal input terminals. (4-Bit)
176	D3K2	I	
177	D3K1	I	
178	D3K0	I	
179	D3V0	I	D3V signal input terminals. (8-Bit)
180	D3V1	I	
181	D3V2	I	
182	D3V3	I	
183	D3V4	I	
184	VDD	–	Power supply terminal.

2.10. *IC214 on the Mixer Board is using the CMOS Gate Array Logic IC YWPD65668138.*
Description of this IC is as follows:


120 VDD
119 PRY0
118 PRY1
117 PRY2
116 PRY3
115 PRY4
114 PRY5
113 PRY6
112 PRY7
111 GND
110 PRC0
109 PRC1
108 PRC2
107 PRC3
106 PRC4
105 PRC5
104 PRC6
103 PRC7
102 PBLK
101 GND
100 VDD
99 PRU0
98 PRU1
97 PRU2
96 PRU3
95 PRU4
94 PRU5
93 PRU6
92 PRU7
91 GND
90 PRV0
89 PRV1
88 PRV2
87 PRV3
86 PRV4
85 PRV5
84 PRV6
83 PRV7
82 GND
81 VDD
GND 121
GND 122
PAL 123
BFP 124
LBLK 125
LSW 126
BSC 127
FSC4 128
VDD 129
TES0 130
TES1 131
TES2 132
TRCK 133
V 134
DAT0 135
DAT1 136
DAT2 137
DAT3 138
DAT4 139
DAT5 140
DAT6 141
DAT7 142
REG0 143
REG1 144
REG2 145
REG3 146
REG4 147
ST 148
YCK 149
RCK 150
FIL0 151
FIL1 152
FIL2 153
FIL3 154
FIL4 155
FIL5 156
FIL6 157
FIL7 158
GND 159
GND 160
(TOP VIEW)
80 GND
79 GND
78 PWY0
77 PWY1
76 PWY2
75 PWY3
74 PWY4
73 PWY5
72 PWY6
71 PWY7
70 GND
69 PWC0
68 PWC1
67 PWC2
66 PWC3
65 PWC4
64 PWC5
63 PWC6
62 PWC7
61 GND
60 VDD
59 PWU0
58 PWU1
57 PWU2
56 PWU3
55 PWU4
54 PWU5
53 PWU6
52 PWU7
51 GND
50 PWV2
49 PWV1
48 PWV2
47 PWV3
46 PWV4
45 PWV5
44 PWV6
43 PWV7
42 GND
41 GND
1 VDD
2 EKY0
3 EKY1
4 EKY2
5 EKY3
6 EKY4
7 EKY5
8 EKY6
9 EKY7
10 EF0
11 EF1
12 EF2
13 EF3
14 EF4
15 EF5
16 EF6
17 EF7
18 EF8
19 EF9
20 VDD
21 GND
22 EF10
23 EF11
24 IPW0
25 IPW1
26 IPW2
27 IPW3
28 IPW4
29 IPW5
30 IPW6
31 IPW7
32 MAT0
33 MAT1
34 MAT2
35 MAT3
36 MAT4
37 MAT5
38 MAT6
39 MAT7
40 VDD

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	EKY0	I	External Key signal input terminals. (8-Bit)
3	EKY1	I	
4	EKY2	I	
5	EKY3	I	
6	EKY4	I	
7	EKY5	I	
8	EKY6	I	
9	EKY7	I	
10	EF0	I	Effect signal input terminals. (12-Bit)
11	EF1	I	
12	EF2	I	
13	EF3	I	
14	EF4	I	
15	EF5	I	

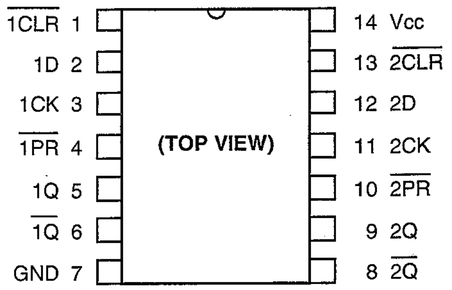
Pin	Name	I/O	Description
16	EF6	I	Effect signal input terminals. (12-Bit)
17	EF7	I	
18	EF8	I	
19	EF9	I	
20	VDD	–	Power supply terminal.
21	GND	–	Ground terminal.
22	EF10	I	Effect signal input terminals. (12-Bit)
23	EF11	I	
24	IPW0	I	IPW signal input terminals. (8-Bit)
25	IPW1	I	
26	IPW2	I	
27	IPW3	I	
28	IPW4	I	
29	IPW5	I	
30	IPW6	I	

Pin	Name	I/O	Description
31	IPW7	I	IPW signal input terminals. (8-Bit)
32	MAT0	I	Matte signal input terminals. (8-Bit)
33	MAT1	I	
34	MAT2	I	
35	MAT3	I	
36	MAT4	I	
37	MAT5	I	
38	MAT6	I	
39	MAT7	I	
40	VDD	–	Power supply terminal.
41	GND	–	Ground terminal.
42	GND	–	Ground terminal.
43	PWV7	O	PWV signal output terminals. (8-Bit)
44	PWV6	O	
45	PWV5	O	
46	PWV4	O	
47	PWV3	O	
48	PWV2	O	
49	PWV1	O	
50	PWV0	O	
51	GND	–	Ground terminal.
52	PWU7	O	PWU signal output terminals. (8-Bit)
53	PWU6	O	
54	PWU5	O	
55	PWU4	O	
56	PWU3	O	
57	PWU2	O	
58	PWU1	O	
59	PWU0	O	
60	VDD	–	Power supply terminal.
61	GND	–	Ground terminal.
62	PWC7	O	PWC signal output terminals. (8-Bit)
63	PWC6	O	
64	PWC5	O	
65	PWC4	O	
66	PWC3	O	
67	PWC2	O	
68	PWC1	O	
69	PWC0	O	
70	GND	–	Ground terminal.
71	PWY7	O	PWY signal output terminals. (8-Bit)
72	PWY6	O	
73	PWY5	O	
74	PWY4	O	
75	PWY3	O	
76	PWY2	O	
77	PWY1	O	
78	PWY0	O	
79	GND	–	Ground terminal.
80	GND	–	Ground terminal.

Pin	Name	I/O	Description
81	VDD	–	Power supply terminal.
82	GND	–	Ground terminal.
83	PRV7	O	Program(Video) signal output terminals. (8-Bit)
84	PRV6	O	
85	PRV5	O	
86	PRV4	O	
87	PRV3	O	
88	PRV2	O	
89	PRV1	O	
90	PRV0	O	
91	GND	–	Ground terminal.
92	PRU7	O	PRU signal output terminals. (8-Bit)
93	PRU6	O	
94	PRU5	O	
95	PRU4	O	
96	PRU3	O	
97	PRU2	O	
98	PRU1	O	
99	PRU0	O	
100	VDD	–	Power supply terminal.
101	GND	–	Ground terminal.
102	PBLK	O	Pre Blanking Pulse output terminal.
103	PRC7	O	Program(C) signal output terminals. (8-Bit)
104	PRC6	O	
105	PRC5	O	
106	PRC4	O	
107	PRC3	O	
108	PRC2	O	
109	PRC1	O	
110	PRC0	O	
111	GND	–	Ground terminal.
112	PRY7	O	Program(Y) signal output terminals. (8-Bit)
113	PRY6	O	
114	PRY5	O	
115	PRY4	O	
116	PRY3	O	
117	PRY2	O	
118	PRY1	O	
119	PRY0	O	
120	VDD	–	Power supply terminal.
121	GND	–	Ground terminal.
122	GND	–	Ground terminal.
123	PAL	I	PAL Mode Select signal input terminal.
124	BFP	I	Burst Flag Pulse input terminal.
125	LBLK	I	Blanking Pulse input terminal.
126	LSW	I	LSW signal input terminal.
127	BSC	I	BSC signal input terminal.
128	FSC4	I	FSC4 Clock Pulse input terminal.
129	VDD	–	Power supply terminal.
130	TES0	I	Test signal input terminals.

Pin	Name	I/O	Description
131	TES1	I	Test signal input terminals.
132	TES2	I	
133	TRCK	I	TRCK signal input terminal.
134	V	I	V signal input terminal.
135	DAT0	I	Data input terminals. (8-Bit)
136	DAT1	I	
137	DAT2	I	
138	DAT3	I	
139	DAT4	I	
140	DAT5	I	
141	DAT6	I	
142	DAT7	I	
143	REG0	I	Register signal input terminals. (5-Bit)
144	REG1	I	
145	REG2	I	
146	REG3	I	
147	REG4	I	
148	ST	I	Strobe signal input terminal.
149	YCK	I	Y Clock Pulse input terminal.
150	RCK	I	Read Clock Pulse input terminal.
151	FIL0	I	FIL signal input terminals. (8-Bit)
152	FIL1	I	
153	FIL2	I	
154	FIL3	I	
155	FIL4	I	
156	FIL5	I	
157	FIL6	I	
158	FIL7	I	
159	GND	–	Ground terminal.
160	GND	–	Ground terminal.

2.11. IC233, IC510-IC512, IC531 and IC532 on the Mixer Board and IC104 on the CG Board are using the Dual JK-FFs with Preset and Clear IC YWMC74HC 74AF. Description of this IC is as follows:

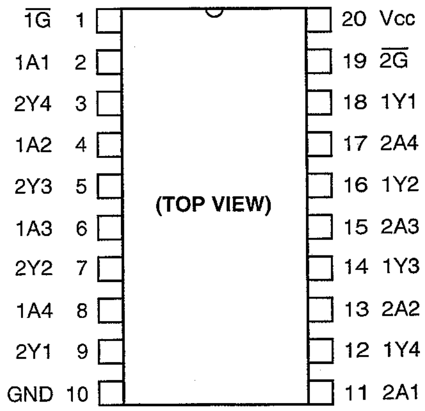

$\overline{1CLR}$ 1
1D 2
1CK 3
$\overline{1PR}$ 4
1Q 5
$\overline{1Q}$ 6
GND 7
(TOP VIEW)
14 Vcc
13 $\overline{2CLR}$
12 2D
11 2CK
10 $\overline{2PR}$
9 2Q
8 $\overline{2Q}$

Truth Table

INPUTS				OUTPUTS		Function
$\overline{CLR}$	$\overline{PR}$	D	CK	Q	$\overline{Q}$	
L	H	*	*	L	H	Clear
H	L	*	*	H	L	Preset
L	L	*	*	H	H	——
H	H	L	↑	L	H	——
H	H	H	↑	H	L	——
H	H	*	↓	Qn	$\overline{Qn}$	No Change

* : Don't care.

2.12. IC230 on the Mixer Board is using the Octal 3-State Bus Inverters IC YWMC74HC240AF. Description of this IC is as follows:

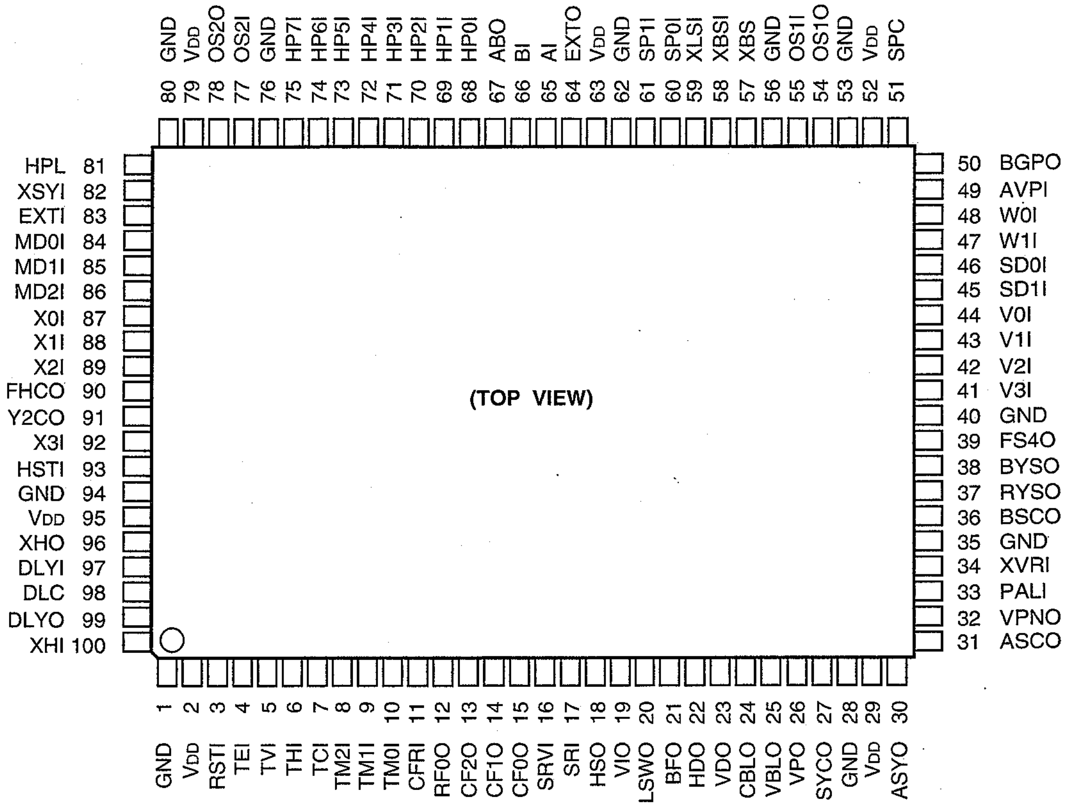

$\overline{1G}$ 1
1A1 2
2Y4 3
1A2 4
2Y3 5
1A3 6
2Y2 7
1A4 8
2Y1 9
GND 10
(TOP VIEW)
20 Vcc
19 $\overline{2G}$
18 1Y1
17 2A4
16 1Y2
15 2A3
14 1Y3
13 2A2
12 1Y4
11 2A1

Truth Table

INPUTS		OUTPUT
$\overline{G}$	A	Y
H	*	Z
L	L	H
L	H	L

* : Don't care.
Z : High Impedance

2.13. IC222 on the Mixer Board is using the Sync Generator CMOS Gate Array Logic IC YWPD65044U07. Description of this IC is as follows:


80 GND
79 VDD
78 OS2O
77 OS2I
76 GND
75 HP7I
74 HP6I
73 HP5I
72 HP4I
71 HP3I
70 HP2I
69 HP1I
68 HP0I
67 ABO
66 BI
65 AI
64 EXTO
63 VDD
62 GND
61 SP1I
60 SP0I
59 XLSI
58 XBSI
57 XBS
56 GND
55 OS1I
54 OS1O
53 GND
52 VDD
51 SPC
HPL 81
XSYI 82
EXTI 83
MD0I 84
MD1I 85
MD2I 86
X0I 87
X1I 88
X2I 89
FHCO 90
Y2CO 91
X3I 92
HSTI 93
GND 94
VDD 95
XHO 96
DLYI 97
DLC 98
DLYO 99
XHI 100
(TOP VIEW)
50 BGPO
49 AVPI
48 W0I
47 W1I
46 SD0I
45 SD1I
44 V0I
43 V1I
42 V2I
41 V3I
40 GND
39 FS4O
38 BYSO
37 RYSO
36 BSCO
35 GND
34 XVRI
33 PALI
32 VPNO
31 ASCO
1 GND
2 VDD
3 RSTI
4 TEI
5 TVI
6 THI
7 TCI
8 TM2I
9 TM1I
10 TM0I
11 CFRI
12 RF0O
13 CF2O
14 CF1O
15 CF0O
16 SRVI
17 SRI
18 HSO
19 VIO
20 LSWO
21 BFO
22 HDO
23 VDO
24 CBLO
25 VBLO
26 VPO
27 SYCO
28 GND
29 VDD
30 ASYO

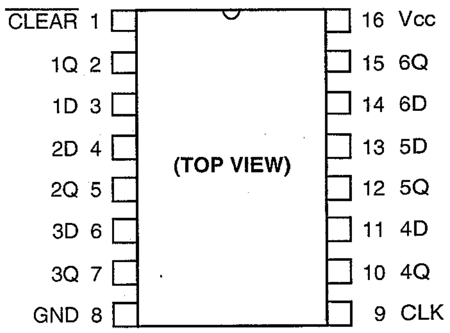
Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	VDD	–	Power supply terminal.
3	RSTI	I	Reset Pulse input terminal.
4	TEI	I	TE signal input terminal.
5	TVI	I	TV signal input terminal.
6	THI	I	TH signal input terminal.
7	TCI	I	TC signal input terminal.
8	TM2I	I	TM2 signal input terminal.
9	TM1I	I	TM1 signal input terminal.
10	TM0I	I	TM0 signal input terminal.
11	CFRI	I	CFR signal input terminal.
12	RF0O	O	RF0 signal output terminal.
13	CF2O	O	CF2 signal output terminal.
14	CF1O	O	CF1 signal output terminal.
15	CF0O	O	CF0 signal output terminal.
16	SRVI	I	SRV signal input terminal.
17	SRI	I	SR signal input terminal.
18	HSO	O	HS signal output terminal.
19	VIO	O	VI signal output terminal.
20	LSWO	O	Line Switch signal output terminal.
21	BFO	O	Burst Flag pulse output terminal.
22	HDO	O	HD signal output terminal.
23	VDO	O	VD signal output terminal.
24	CBLO	O	C.Blanking signal output terminal.
25	VBLO	O	V.Blanking signal output terminal.
26	VPO	O	VP signal output terminal.
27	SYCO	O	Sync signal output terminal.
28	GND	–	Ground terminal.
29	VDD	–	Power supply terminal.
30	ASYO	O	ASY signal output terminal.
31	ASCO	O	ASC signal output terminal.
32	VPNO	O	VPN signal output terminal.
33	PALI	I	PAL Selection signal input terminal.
34	XVRI	I	XVR signal input terminal.
35	GND	–	Ground terminal.
36	BSCO	O	BSC signal output terminal.

Pin	Name	I/O	Description
37	RYSO	O	RYS signal output terminal.
38	BYSO	O	BYS signal output terminal.
39	FS4O	O	FS4 signal output terminal.
40	GND	–	Ground terminal.
41	V3I	I/O	V3 signal input/output terminal.
42	V2I	I/O	V2 signal input/output terminal.
43	V1I	I/O	V1 signal input/output terminal.
44	V0I	I/O	V0 signal input/output terminal.
45	SD1I	I	SD1 signal input terminal.
46	SD0I	I	SD0 signal input terminal.
47	W1I	I/O	W1 signal input/output terminal.
48	W0I	I/O	W0 signal input/output terminal.
49	AVPI	I	AVP0 signal input terminal.
50	BGPO	O	Burst Gate Pulse output terminal.
51	SPC	O	SPC signal output terminal.
52	VDD	–	Power supply terminal.
53	GND	–	Ground terminal.
54	OS1O	O	Oscillation signal output terminal.
55	OS1I	I	Oscillation signal input terminal.
56	GND	–	Ground terminal.
57	XBS	O	XBS signal output terminal.
58	XBSI	I	XBSI signal input terminal.
59	XLSI	I	XLSI signal input terminal.
60	SP0I	I	SP0I signal input terminal.
61	SP1I	I	SP1I signal input terminal.
62	GND	–	Ground terminal.
63	VDD	–	Power supply terminal.
64	EXTO	O	External signal output terminal.
65	AI	I	A signal input terminal.
66	BI	I	B signal input terminal.
67	ABO	O	AB signal output terminal.
68	HP0I	I	HP0 signal input terminal.
69	HP1I	I	HP1 signal input terminal.
70	HP2I	I	HP2 signal input terminal.
71	HP3I	I	HP3 signal input terminal.
72	HP4I	I	HP4 signal input terminal.
73	HP5I	I	HP5 signal input terminal.
74	HP6I	I	HP6 signal input terminal.
75	HP7I	I	HP7 signal input terminal.
76	GND	–	Ground terminal.
77	OS2I	I	Oscillation signal input terminal.
78	OS2O	O	Oscillation signal output terminal.
79	VDD	–	Power supply terminal.
80	GND	–	Ground terminal.
81	HPL	O	HPL signal output terminal.

Pin	Name	I/O	Description
82	XSYI	I	External Sync signal input terminal.
83	EXTI	I	External Sync signal input terminal.
84	MD0I	I	MD0 signal input terminal.
85	MD1I	I	MD1 signal input terminal.
86	MD2I	I	MD2 signal input terminal.
87	X0I	I	X0 signal input terminal.
88	X1I	I	X1 signal input terminal.
89	X2I	I	X2 signal input terminal.
90	FHCO	O	FHC signal output terminal.
91	Y2CO	O	Y2C signal output terminal.
92	X3I	I	X3 signal input terminal.
93	HSTI	I	HST signal input terminal.
94	GND	–	Ground terminal.
95	VDD	–	Power supply terminal.
96	XHO	O	XH signal output terminal.
97	DLYI	I	DLY signal input terminal.
98	DLC	I/O	DLC signal input/output terminal.
99	DLYO	O	DLY signal output terminal.
100	XHI	I	XH signal input terminal.

2.14. IC506 on the Mixer Board is using the Quad D-FFs IC YWMC74HC174AF.

Description of this IC is as follows:

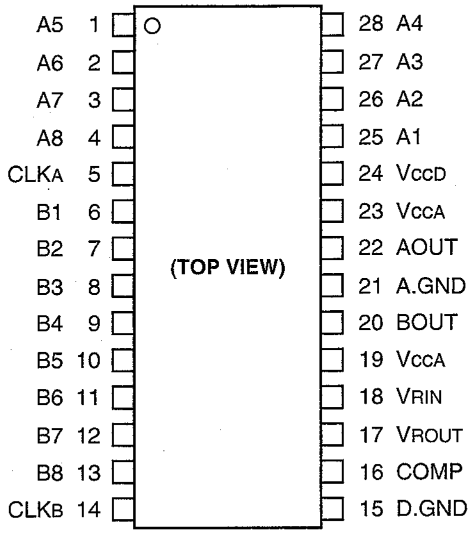


Truth Table

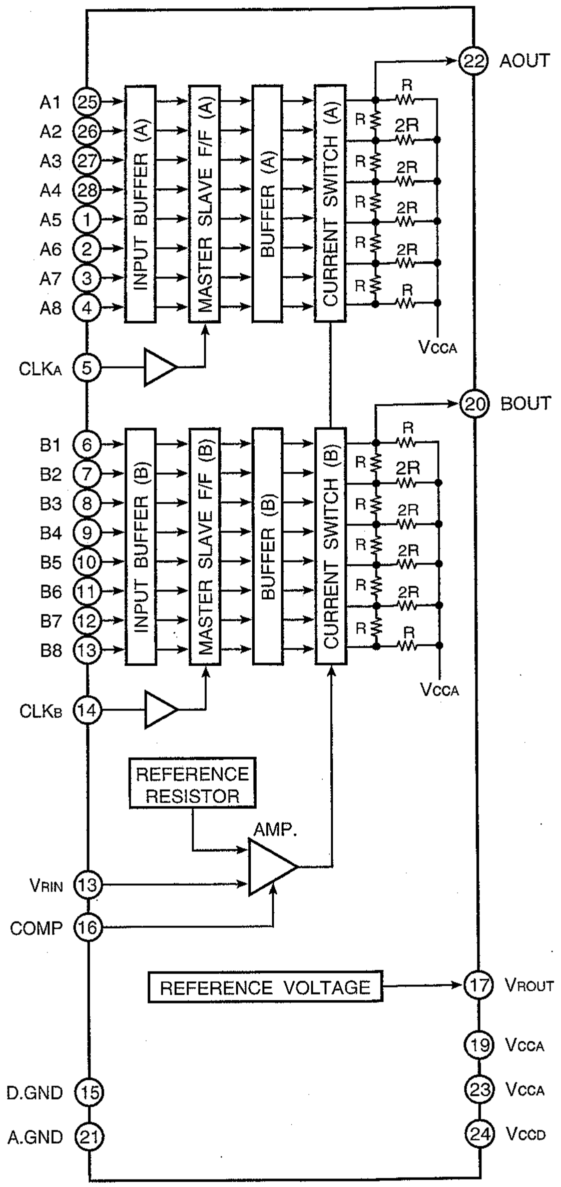
INPUTS			OUTPUTS		Function
$\overline{\text{CLR}}$	D	CLK	Q	$\overline{\text{Q}}$	
L	*	*	L	H	Clear
H	L	↑	L	H	——
H	H	↑	H	L	——
H	*	↓	Qn	$\overline{\text{Qn}}$	No Change

* : Don't care.

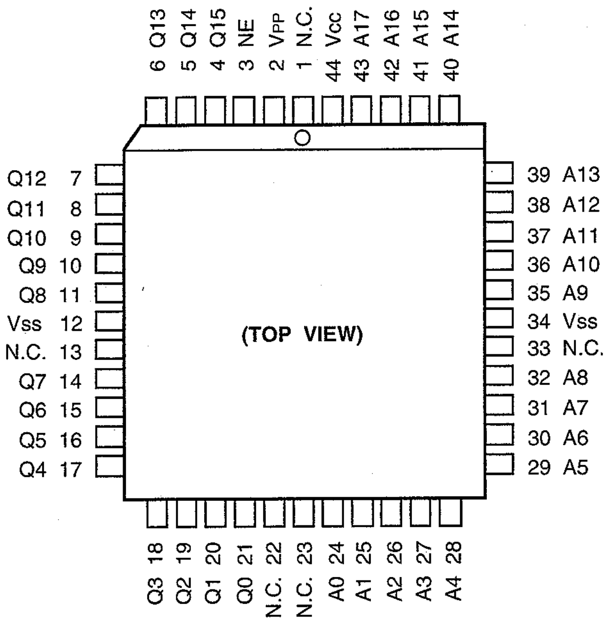
2.15. IC215 and IC216 on the Mixer Board are using the 2-ch 8-Bit D/A Converter IC YWMB40968PF.
Description of this IC is as follows:


A5 1
A6 2
A7 3
A8 4
CLKA 5
B1 6
B2 7
B3 8
B4 9
B5 10
B6 11
B7 12
B8 13
CLKB 14
(TOP VIEW)
28 A4
27 A3
26 A2
25 A1
24 VCCD
23 VCCA
22 AOUT
21 A.GND
20 BOUT
19 VCCA
18 VRIN
17 VROUT
16 COMP
15 D.GND

Pin	Name	I/O	Description
1	A5	I	Ach Digital Data input terminals. (8-Bit)
2	A6	I	
3	A7	I	
4	A8	I	(LSB)
5	CLKA	I	Ach Clock Pulse input terminal.
6	B1	I	(MSB)
7	B2	I	Bch Digital Data input terminals. (8-Bit)
8	B3	I	
9	B4	I	
10	B5	I	
11	B6	I	
12	B7	I	
13	B8	I	(LSB)
14	CLKB	I	Bch Clock Pulse input terminal.
15	D.GND	–	Ground terminal for Digital circuit.
16	COMP	I	Phase Compensation terminal.
17	VROUT	O	Reference Voltage output terminal.
18	VRIN	I	Reference Voltage input terminal.
19	VCCA	–	Power supply terminal for Analog circuit.
20	BOUT	O	Bch Analog signal output terminal.
21	A.GND	–	Ground terminal for Analog circuit.
22	AOUT	O	Ach Analog signal output terminal.
23	VCCA	–	Power supply terminal for Analog circuit.
24	VCCD	–	Power supply terminal for Digital circuit.
25	A1	I	(MSB)
26	A2	I	Ach Digital Data input terminals. (8-Bit)
27	A3	I	
28	A4	I	


A1 25
A2 26
A3 27
A4 28
A5 1
A6 2
A7 3
A8 4
CLKA 5
INPUT BUFFER (A)
MASTER SLAVE F/F (A)
BUFFER (A)
CURRENT SWITCH (A)
R
2R
22 AOUT
VCCA
B1 6
B2 7
B3 8
B4 9
B5 10
B6 11
B7 12
B8 13
CLKB 14
INPUT BUFFER (B)
MASTER SLAVE F/F (B)
BUFFER (B)
CURRENT SWITCH (B)
20 BOUT
VCCA
REFERENCE RESISTOR
AMP.
VRIN 13
COMP 16
REFERENCE VOLTAGE
17 VROUT
19 VCCA
23 VCCA
24 VCCD
D.GND 15
A.GND 21

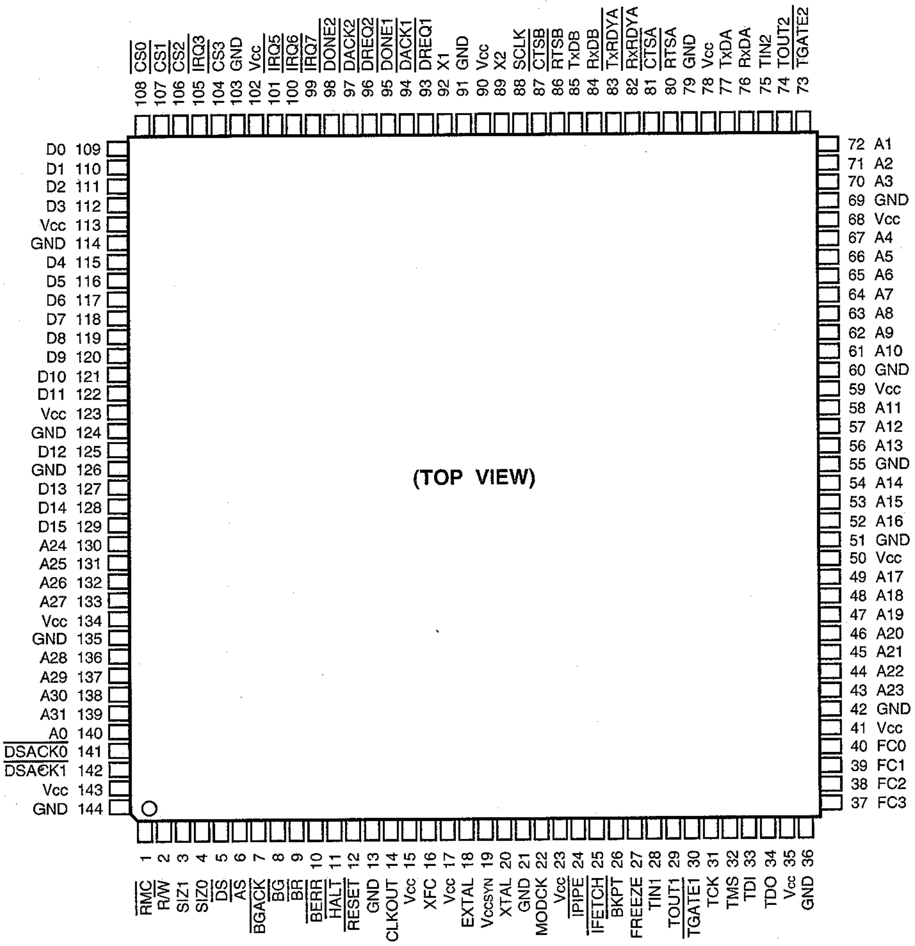
2.16. IC212 on the Mixer Board is using the CMOS 4M-Bit (256K-word x 16-Bit) EEPROM IC YWSS400212CA.
Description of this IC is as follows:


6 Q13
5 Q14
4 Q15
3 NE
2 VPP
1 N.C.
44 Vcc
43 A17
42 A16
41 A15
40 A14
Q12 7
Q11 8
Q10 9
Q9 10
Q8 11
Vss 12
N.C. 13
Q7 14
Q6 15
Q5 16
Q4 17
(TOP VIEW)
39 A13
38 A12
37 A11
36 A10
35 A9
34 Vss
33 N.C.
32 A8
31 A7
30 A6
29 A5
Q3 18
Q2 19
Q1 20
Q0 21
N.C. 22
N.C. 23
A0 24
A1 25
A2 26
A3 27
A4 28

Pin	Name	I/O	Description
1	N.C.	–	Non connection.
2	VPP	I	Programming Voltage supply terminal.
3	NE	I	Chip Enable signal input terminal.
4	Q15	O	Data output terminals. (16-Bit)
5	Q14	O	
6	Q13	O	
7	Q12	O	
8	Q11	O	
9	Q10	O	
10	Q9	O	
11	Q8	O	
12	Vss	–	Ground terminal.
13	N.C.	–	Non connection.
14	Q7	O	Data output terminals. (16-Bit)
15	Q6	O	
16	Q5	O	
17	Q4	O	
18	Q3	O	
19	Q2	O	
20	Q1	O	
21	Q0	O	
22	N.C.	–	Non connection.

Pin	Name	I/O	Description
23	N.C.	–	Non connection.
24	A0	I	Address signal input terminals. (18-Bit)
25	A1	I	
26	A2	I	
27	A3	I	
28	A4	I	
29	A5	I	
30	A6	I	
31	A7	I	
32	A8	I	
23	N.C.	–	Non connection.
34	Vss	–	Ground terminal.
35	A9	I	Address signal input terminals. (18-Bit)
36	A10	I	
37	A11	I	
38	A12	I	
39	A13	I	
40	A14	I	
41	A15	I	
42	A16	I	
43	A17	I	
44	Vcc	–	Power supply terminal.

2.17. IC507 on the Mixer Board is using the 16-Bit Microprocessor IC YWMC68340FE16B.
Description of this IC is as follows:


(TOP VIEW)
108 CS0
107 CS1
106 CS2
105 IRQ3
104 CS3
103 GND
102 Vcc
101 IRQ5
100 IRQ6
99 IRQ7
98 DONE2
97 DACK2
96 DREQ2
95 DONE1
94 DACK1
93 DREQ1
92 X1
91 GND
90 Vcc
89 X2
88 SCLK
87 CTSB
86 RTSB
85 TxDB
84 RxDB
83 TxRDYA
82 RxRDYA
81 CTSA
80 RTSA
79 GND
78 Vcc
77 TxDA
76 RxDA
75 TIN2
74 TOUT2
73 TGATE2
D0 109
D1 110
D2 111
D3 112
Vcc 113
GND 114
D4 115
D5 116
D6 117
D7 118
D8 119
D9 120
D10 121
D11 122
Vcc 123
GND 124
D12 125
GND 126
D13 127
D14 128
D15 129
A24 130
A25 131
A26 132
A27 133
Vcc 134
GND 135
A28 136
A29 137
A30 138
A31 139
A0 140
DSACK0 141
DSACK1 142
Vcc 143
GND 144
72 A1
71 A2
70 A3
69 GND
68 Vcc
67 A4
66 A5
65 A6
64 A7
63 A8
62 A9
61 A10
60 GND
59 Vcc
58 A11
57 A12
56 A13
55 GND
54 A14
53 A15
52 A16
51 GND
50 Vcc
49 A17
48 A18
47 A19
46 A20
45 A21
44 A22
43 A23
42 GND
41 Vcc
40 FC0
39 FC1
38 FC2
37 FC3
1 RMC
2 R/W
3 SIZ1
4 SIZ0
5 DS
6 AS
7 BGACK
8 BG
9 BR
10 BERR
11 HALT
12 RESET
13 GND
14 CLKOUT
15 Vcc
16 XFC
17 Vcc
18 EXTAL
19 VccSYN
20 XTAL
21 GND
22 MODCK
23 Vcc
24 IPIPE
25 IFETCH
26 BKPT
27 FREEZE
28 TIN1
29 TOUT1
30 TGATE1
31 TCK
32 TMS
33 TDI
34 TDO
35 Vcc
36 GND

Pin	Name	I/O	Description
1	$\overline{\text{RMC}}$	O	$\overline{\text{RMC}}$ signal output terminal.
2	R/$\overline{\text{W}}$	O	Read/Write signal output terminal.
3	SIZ1	O	SIZ signal output terminals.
4	SIZ0	O	
5	$\overline{\text{DS}}$	O	Data Strobe signal output terminal.
6	$\overline{\text{AS}}$	O	Address Strobe signal output terminal.
7	$\overline{\text{BGACK}}$	O	Bus Grant Acknowledge signal output terminal.
8	$\overline{\text{BG}}$	O	Bus Grant signal output terminal.
9	$\overline{\text{BR}}$	I	Bus Request signal input terminal.
10	$\overline{\text{BERR}}$	I	$\overline{\text{BERR}}$ signal input terminal.
11	$\overline{\text{HALT}}$	I/O	Halt signal input/output terminal.
12	$\overline{\text{RESET}}$	I/O	Reset Pulse input/output terminal.
13	GND	–	Ground terminal.
14	CLKOUT	O	Clock Pulse output terminal.
15	Vcc	–	Power supply terminal.

Pin	Name	I/O	Description
16	XFC	–	External Filter Capacitor connecting terminal.
17	Vcc	–	Power supply terminal.
18	EXTAL	I	EXTAL signal input terminal.
19	VccSYN	I	VccSYN signal input terminal.
20	XTAL	I	XTAL signal input terminal.
21	GND	–	Ground terminal.
22	MODCK	I/O	MODCK signal input/output terminal.
23	Vcc	–	Power supply terminal.
24	$\overline{\text{IPIPE}}$	O	$\overline{\text{IPIPE}}$ signal output terminal.
25	$\overline{\text{IFETCH}}$	O	$\overline{\text{IFETCH}}$ signal output terminal.
26	$\overline{\text{BKPK}}$	I	$\overline{\text{BKPK}}$ signal input terminal.
27	FREEZE	O	Freeze signal output terminal.
28	TIN1	I	Timer signal input terminal.
29	TOUT1	O	Timer signal output terminal.
30	TGATE1	I	Timer Gate signal input terminal.

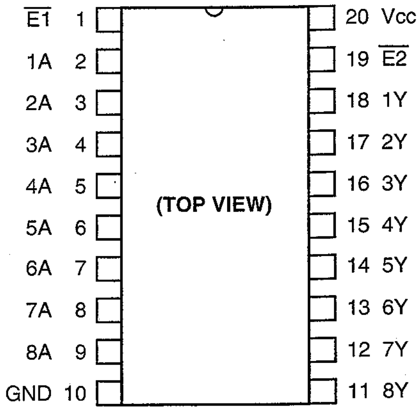
Pin	Name	I/O	Description
31	TCK	I	Timer Clock Pulse input terminal.
32	TMS	I	TMS signal input terminal.
33	TDI	I	TD signal input terminal.
34	TDO	O	TD signal output terminal.
35	Vcc	–	Power supply terminal.
36	GND	–	Ground terminal.
37	FC3	O	FC signal output terminals.
38	FC2	O	
39	FC1	O	
40	FC0	O	
41	Vcc	–	Power supply terminal.
42	GND	–	Ground terminal.
43	A23	O	Address signal output terminals. (24-Bit)
44	A22	O	
45	A21	O	
46	A20	O	
47	A19	O	
48	A18	O	
49	A17	O	
50	Vcc	–	Power supply terminal.
51	GND	–	Ground terminal.
52	A16	O	Address signal output terminals. (24-Bit)
53	A15	O	
54	A14	O	
55	GND	–	Ground terminal.
56	A13	O	Address signal output terminals. (24-Bit)
57	A12	O	
58	A11	O	
59	Vcc	–	Power supply terminal.
60	GND	–	Ground terminal.
61	A10	O	Address signal output terminals. (24-Bit)
62	A9	O	
63	A8	O	
64	A7	O	
65	A6	O	
66	A5	O	
67	A4	O	
68	Vcc	–	Power supply terminal.
69	GND	–	Ground terminal.
70	A3	O	Address signal output terminals. (24-Bit)
71	A2	O	
72	A1	O	
73	$\overline{\text{TGATE2}}$	I	Timer Gate signal input terminal.
74	TOUT2	O	Timer signal output terminal.
75	TIN2	I	Timer signal input terminal.

Pin	Name	I/O	Description
76	RxDA	I	Serial Interface Data input terminal.
77	TxDA	O	Serial Interface Data output terminal.
78	Vcc	–	Power supply terminal.
79	GND	–	Ground terminal.
80	$\overline{\text{RTSA}}$	O	$\overline{\text{RTSA}}$ signal output terminal.
81	$\overline{\text{CSTA}}$	I	$\overline{\text{CSTA}}$ signal input terminal.
82	$\overline{\text{RxRDYA}}$	O	$\overline{\text{RxRDYA}}$ signal output terminal.
83	$\overline{\text{TxRDYA}}$	O	$\overline{\text{TxRDYA}}$ signal output terminal.
84	RxDB	I	RxDB signal input terminal.
85	TxDB	O	RxDB signal output terminal.
86	$\overline{\text{RTSB}}$	O	$\overline{\text{RTSB}}$ signal input terminal.
87	$\overline{\text{CTSB}}$	I	$\overline{\text{CTSB}}$ signal input terminal.
88	SCLK	I	Serial Clock Pulse input terminal.
89	X2	O	Clock Pulse output terminal.
90	Vcc	–	Power supply terminal.
91	GND	–	Ground terminal.
92	X1	I	Clock Pulse input terminal.
93	$\overline{\text{DREQ1}}$	I	Data Request signal input terminal.
94	$\overline{\text{DACK1}}$	O	Data Request Acknowledge signal output terminal.
95	$\overline{\text{DONE1}}$	I/O	$\overline{\text{DONE1}}$ signal input/output terminal.
96	$\overline{\text{DREQ2}}$	I	Data Request signal input terminal.
97	$\overline{\text{DACK2}}$	O	Data Request Acknowledge signal output terminal.
98	$\overline{\text{DONE2}}$	I/O	$\overline{\text{DONE2}}$ signal input/output terminal.
99	$\overline{\text{IRQ7}}$	I/O	$\overline{\text{IRQ7}}$ signal input/output terminal.
100	$\overline{\text{IRQ6}}$	I/O	$\overline{\text{IRQ6}}$ signal input/output terminal.
101	$\overline{\text{IRQ5}}$	I/O	$\overline{\text{IRQ5}}$ signal input/output terminal.
102	Vcc	–	Power supply terminal.
103	GND	–	Ground terminal.
104	$\overline{\text{CS3}}$	I/O	Address Decoder signal input/output terminal. (4-Bit)
105	$\overline{\text{IRQ3}}$	I/O	$\overline{\text{IRQ3}}$ signal input/output terminal.
106	$\overline{\text{CS2}}$	I/O	Address Decoder signal input/output terminal. (4-Bit)
107	$\overline{\text{CS1}}$	I/O	
108	$\overline{\text{CS0}}$	I/O	
109	D0	I/O	Data Bus input/output terminals. (16-Bit)
110	D1	I/O	
111	D2	I/O	
112	D3	I/O	
113	Vcc	–	Power supply terminal.
114	GND	–	Ground terminal.
115	D4	I/O	Data Bus input/output terminals. (16-Bit)
116	D5	I/O	
117	D6	I/O	

Pin	Name	I/O	Description
118	D7	I/O	Data Bus input/output terminals. (16-Bit)
119	D8	I/O	
120	D9	I/O	
121	D10	I/O	
122	D11	I/O	
123	Vcc	–	Power supply terminal.
124	GND	–	Ground terminal.
125	D12	I/O	Data Bus input/output terminals. (16-Bit)
126	GND	–	Ground terminal.
127	D13	I/O	Data Bus input/output terminals. (16-Bit)
128	D14	I/O	
129	D15	I/O	
130	A24	I/O	Address signal input/output terminals. (8-Bit)
131	A25	I/O	
132	A26	I/O	
133	A27	I/O	
134	Vcc	–	Power supply terminal.
135	GND	–	Ground terminal.
136	A28	I/O	Address signal input/output terminals. (8-Bit)
137	A29	I/O	
138	A30	I/O	
139	A31	I/O	
140	A0	O	Address signal output terminals. (24-Bit)
141	$\overline{\text{DSACK0}}$	I	$\overline{\text{DSACK0}}$ signal input terminal.
142	$\overline{\text{DSACK1}}$	I	$\overline{\text{DSACK1}}$ signal input terminal.
143	Vcc	–	Power supply terminal.
144	GND	–	Ground terminal.

2.18. IC218-IC220 on the Mixer Board, IC97 and IC108 on the CG Board and IC41 on the JPEG/SCSI-1 Board are using the Octal 3-State Bus Buffers IC YWMC74AC541M.

Description of this IC is as follows:


$\overline{E1}$ 1
1A 2
2A 3
3A 4
4A 5
5A 6
6A 7
7A 8
8A 9
GND 10
20 Vcc
19 $\overline{E2}$
18 1Y
17 2Y
16 3Y
15 4Y
14 5Y
13 6Y
12 7Y
11 8Y
(TOP VIEW)

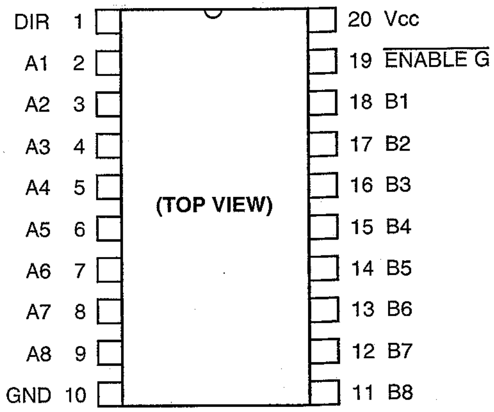
Truth Table

INPUTS		OUTPUT
$\overline{E1}$	$\overline{E2}$	Y
L	L	A
H	*	Z
*	H	

* : Don't care.
Z : High Impedance

2.19. IC533 and IC534 on the Mixer Board, IC6 on the Audio Board, IC6, IC20 and IC21 on the JPEG/SCSI-1 Board, IC206, IC218 and IC222 on the JPEG/SCSI-2 Board, IC20 on the JPEG/SCSI-1 Board and IC1 and IC2 on the I/F Board are using the Octal 3-State Bus Transceivers IC YWMC74HC245AF.

Description of this IC is as follows:

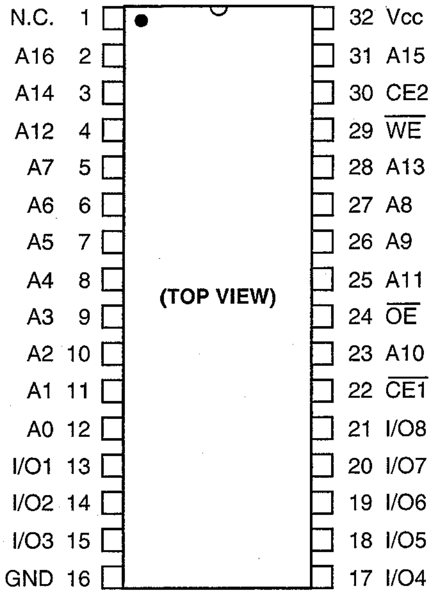

DIR 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
GND 10
20 Vcc
19 $\overline{\text{ENABLE G}}$
18 B1
17 B2
16 B3
15 B4
14 B5
13 B6
12 B7
11 B8
(TOP VIEW)

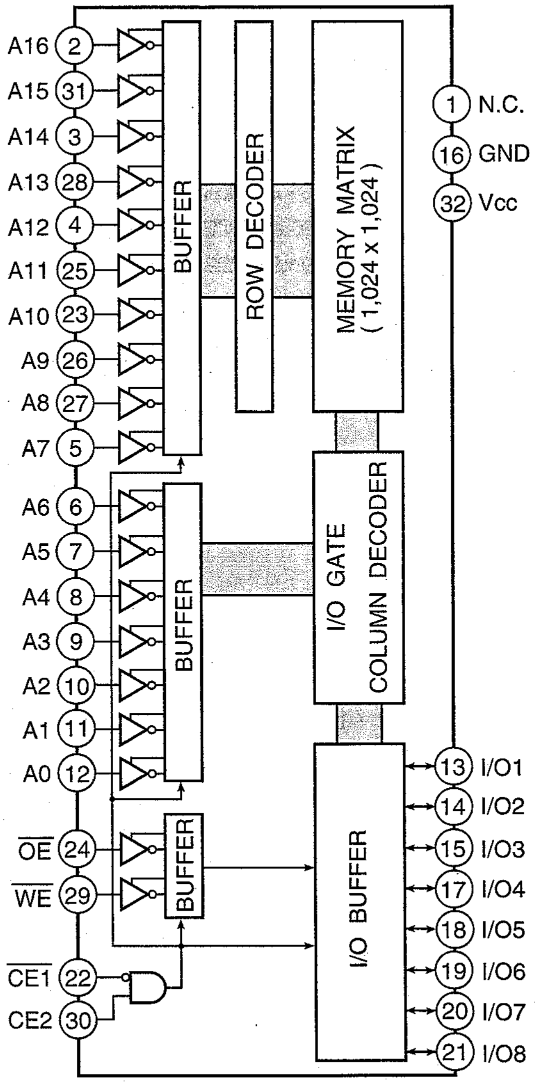
Truth Table

INPUTS		FUNCTION
DIR	$\overline{\text{ENABLE G}}$	
H	L	A ⟶ B
L	L	B ⟶ A
*	H	A OFF B

* : Don't care.

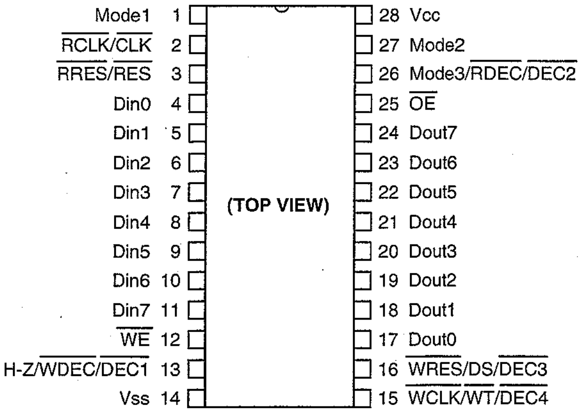
2.20. IC508 and IC509 on the Mixer Board are using the 131,072-word x 8-Bit High Speed Static RAM IC YWCXK581000AM. Description of this IC is as follows:


N.C. 1
A16 2
A14 3
A12 4
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
I/O1 13
I/O2 14
I/O3 15
GND 16
(TOP VIEW)
32 Vcc
31 A15
30 CE2
29 $\overline{WE}$
28 A13
27 A8
26 A9
25 A11
24 $\overline{OE}$
23 A10
22 $\overline{CE1}$
21 I/O8
20 I/O7
19 I/O6
18 I/O5
17 I/O4


A16 2
A15 31
A14 3
A13 28
A12 4
A11 25
A10 23
A9 26
A8 27
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
$\overline{OE}$ 24
$\overline{WE}$ 29
$\overline{CE1}$ 22
CE2 30
BUFFER
ROW DECODER
MEMORY MATRIX (1,024 x 1,024)
BUFFER
I/O GATE COLUMN DECODER
BUFFER
I/O BUFFER
1 N.C.
16 GND
32 Vcc
13 I/O1
14 I/O2
15 I/O3
17 I/O4
18 I/O5
19 I/O6
20 I/O7
21 I/O8

Pin	Name	I/O	Description
1	N.C.	–	Non connection.
2	A16	I	Address signal input terminals. (17-Bit)
3	A14	I	
4	A12	I	
5	A7	I	
6	A6	I	
7	A5	I	
8	A4	I	
9	A3	I	
10	A2	I	
11	A1	I	
12	A0	I	
13	I/O1	I/O	Data input/output terminals. (8-Bit)
14	I/O2	I/O	
15	I/O3	I/O	
16	GND	–	Ground terminal.
17	I/O4	I/O	Data input/output terminals. (8-Bit)
18	I/O5	I/O	
19	I/O6	I/O	
20	I/O7	I/O	
21	I/O8	I/O	
22	$\overline{CE1}$	I	Chip Enable 1 signal input terminal.
23	A10	I	Address signal input terminals. (17-Bit)
24	$\overline{OE}$	I	Output Enable signal input terminal.
25	A11	I	Address signal input terminals. (17-Bit)
26	A9	I	
27	A8	I	
28	A13	I	
29	$\overline{WE}$	I	Write Enable signal input terminal.
30	CE2	I	Chip Enable 2 signal input terminal.
31	A15	I	Address signal input terminals. (17-Bit)
32	Vcc	–	Power supply terminal.

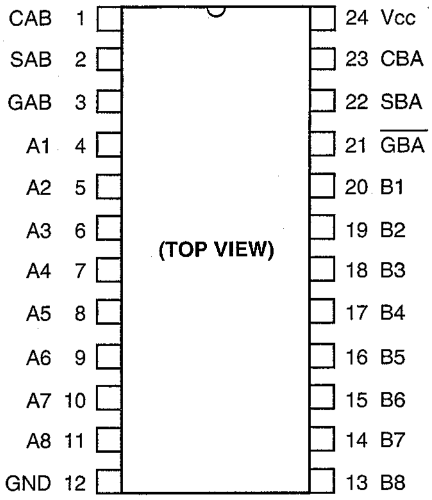
2.21. IC203-IC207 on the Mixer Board are using the 2,0480word x 8-Bit CMOS Static RAM IC YWH63021FP28.
Description of this IC is as follows:


Mode1 1
$\overline{\mathrm{RCLK}}/\overline{\mathrm{CLK}}$ 2
$\overline{\mathrm{RRES}}/\overline{\mathrm{RES}}$ 3
Din0 4
Din1 5
Din2 6
Din3 7
Din4 8
Din5 9
Din6 10
Din7 11
$\overline{\mathrm{WE}}$ 12
H-Z/$\overline{\mathrm{WDEC}}/\overline{\mathrm{DEC1}}$ 13
Vss 14
(TOP VIEW)
28 Vcc
27 Mode2
26 Mode3/$\overline{\mathrm{RDEC}}/\overline{\mathrm{DEC2}}$
25 $\overline{\mathrm{OE}}$
24 Dout7
23 Dout6
22 Dout5
21 Dout4
20 Dout3
19 Dout2
18 Dout1
17 Dout0
16 $\overline{\mathrm{WRES}}$/DS/$\overline{\mathrm{DEC3}}$
15 $\overline{\mathrm{WCLK}}/\overline{\mathrm{WT}}/\overline{\mathrm{DEC4}}$

Pin	Name	I/O	Description
1	Mode1	I	Mode Switching signal input terminal.
2	$\overline{\mathrm{RCLK}}/\overline{\mathrm{CLK}}$	I	Read Clock Pulse input terminal or Clock Pulse input terminal.
3	$\overline{\mathrm{RRES}}/\overline{\mathrm{RES}}$	I	Read Reset Pulse input terminal or Reset Pulse input terminal.
4	Din0	I	Data input terminals. (8-Bit)
5	Din1	I	
6	Din2	I	
7	Din3	I	
8	Din4	I	
9	Din5	I	
10	Din6	I	
11	Din7	I	
12	$\overline{\mathrm{WE}}$	I	Write Enable signal input terminal.
13	H-Z/$\overline{\mathrm{WDEC}}/\overline{\mathrm{DEC1}}$	O	High Impedance, Write Decode Pulse output terminal or Decode Pulse output terminal.
14	Vss	–	Ground terminal.
15	$\overline{\mathrm{WCLK}}/\overline{\mathrm{WT}}/\overline{\mathrm{DEC4}}$	I/O	Write Clock Pulse input terminal, Write Timing signal input terminal or Decode Pulse output terminal.
16	$\overline{\mathrm{WRES}}$/DS/$\overline{\mathrm{DEC3}}$	I/O	Write Reset Pulse input terminal, Delay Select signal input terminal or Decode Pulse output terminal.
17	Dout0	O	Data output terminals. (8-Bit)
18	Dout1	O	
19	Dout2	O	
20	Dout3	O	
21	Dout4	O	
22	Dout5	O	
23	Dout6	O	Data output terminals. (8-Bit)
24	Dout7	O	
25	$\overline{\mathrm{OE}}$	I	Output Enable signal input terminal.
26	Mode3/$\overline{\mathrm{RDEC}}$ $\overline{\mathrm{DEC2}}$	I/O	Mode Switching signal input terminal, Read Decode Pulse output terminal or Decode Pulse output terminal.
27	Mode2	I	Mode Switching signal input terminal.
28	Vcc	–	Power supply terminal.

2.23. IC519 and IC520 on the Mixer Board are using the Octal 3-State Transceivers with Register Function IC YWSN74HCT652DW.

Description of this IC is as follows:


CAB 1
SAB 2
GAB 3
A1 4
A2 5
A3 6
A4 7
A5 8
A6 9
A7 10
A8 11
GND 12
(TOP VIEW)
24 Vcc
23 CBA
22 SBA
21 $\overline{GBA}$
20 B1
19 B2
18 B3
17 B4
16 B5
15 B6
14 B7
13 B8

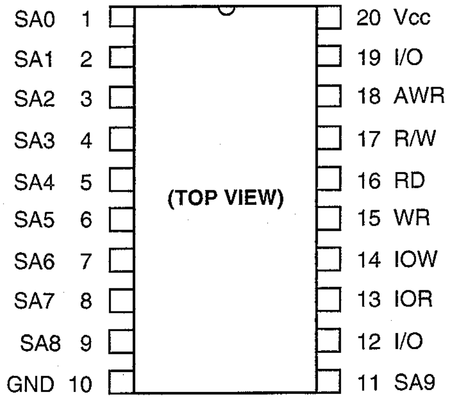
Truth Table

Inputs						Data I/O		Function
GAB	$\overline{GBA}$	CAB	CBA	SAB	SBA	A1 I A8	B1 I B8	
L	H	H,L	H,L	*	*	Input	Input	Both A and B are Z.
L	H	↑	↑	*	*			Store both A and B Data.
*	H	↑	H,L	*	*	Input	#	Store A and hold B.
H	H	↑	↑	*	*	Input	Output	Store A to both Registers.
L	*	H,L	↑	*	*	#	Input	Store B and hold A.
L	L	↑	↑	*	*	Output	Input	Store B to both Registers.
L	L	*	*	*	L	Output	Input	Real time B Data to A-Bus.
L	L	*	H,L	*	H			Stroed B Data to A-Bus.
H	H	*	*	L	*	Input	Output	Real time A Data to B-Bus.
H	H	H,L	*	H	*			Stroed A Data to B-Bus.
H	L	H,L	H,L	H	H	Output	Output	Stroed A Data to B-Bus. Stroed B Data to A-Bus.

* : Don't care.
Z : High Impedance
# : Not specified

2.24. IC518 on the Mixer Board is using the Logic Control IC YW18CV8AV003.

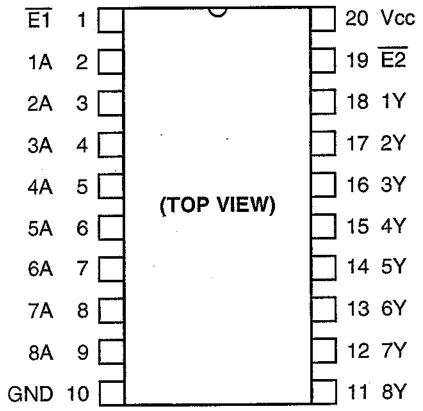
Description of this IC is as follows:


SA0 1
SA1 2
SA2 3
SA3 4
SA4 5
SA5 6
SA6 7
SA7 8
SA8 9
GND 10
(TOP VIEW)
20 Vcc
19 I/O
18 AWR
17 R/W
16 RD
15 WR
14 IOW
13 IOR
12 I/O
11 SA9

Pin	Name	I/O	Description
1	SA0	I	Address signal input terminals. (10-Bit)
2	SA1	I	
3	SA2	I	
4	SA3	I	
5	SA4	I	
6	SA5	I	
7	SA6	I	
8	SA7	I	
9	SA8	I	
10	GND	–	Ground terminal.
11	SA9	I	Address signal input terminals. (10-Bit)
12	I/O	I/O	Control signal input/output terminal.
13	IOR	O	IOR signal output terminal..
14	IOW	O	IOW signal output terminal..
15	WR	O	Write signal output terminal.
16	RD	O	Read signal output terminal.
17	R/W	O	Read/Write signal output terminal.
18	AWR	O	AWR signal output terminal.
19	I/O	I/O	Control signal input/output terminal.
20	Vcc	–	Power supply terminal.

2.25. IC535 and IC536 on the Mixer Board, IC29, IC30 and IC41 on the JPEG/SCSI-1 Board and IC1 and IC2 on the I/F Board are using the Octal 3-State Bus Buffers IC YWMC74HC541AF.

Description of this IC is as follows:


$\overline{\text{E1}}$ 1
1A 2
2A 3
3A 4
4A 5
5A 6
6A 7
7A 8
8A 9
GND 10
(TOP VIEW)
20 Vcc
19 $\overline{\text{E2}}$
18 1Y
17 2Y
16 3Y
15 4Y
14 5Y
13 6Y
12 7Y
11 8Y

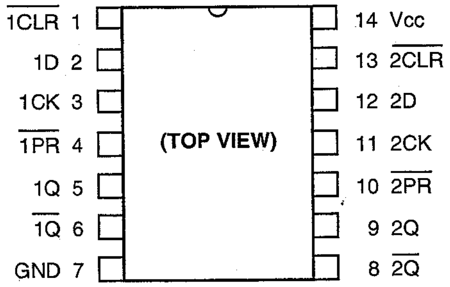
Truth Table

INPUTS		OUTPUT
$\overline{\text{E1}}$	$\overline{\text{E2}}$	Y
L	L	A
H	*	Z
*	H	

* : Don't care.
Z : High Impedance

2.26. IC24 and IC76 on the Mixer Board are using the Dual JK-FFs with Preset and Clear IC YWMC74AC74M.

Description of this IC is as follows:


$\overline{\text{1CLR}}$ 1
1D 2
1CK 3
$\overline{\text{1PR}}$ 4
1Q 5
$\overline{\text{1Q}}$ 6
GND 7
(TOP VIEW)
14 Vcc
13 $\overline{\text{2CLR}}$
12 2D
11 2CK
10 $\overline{\text{2PR}}$
9 2Q
8 $\overline{\text{2Q}}$

Truth Table

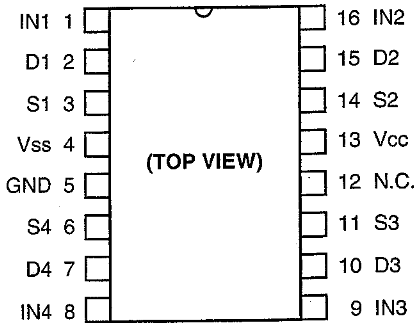
INPUTS				OUTPUTS		Function
$\overline{\text{CLR}}$	$\overline{\text{PR}}$	D	CK	Q	$\overline{\text{Q}}$	
L	H	*	*	L	H	Clear
H	L	*	*	H	L	Preset
L	L	*	*	H	H	——
H	H	L	↑	L	H	——
H	H	H	↑	H	L	——
H	H	*	↓	Qn	$\overline{\text{Qn}}$	No Change

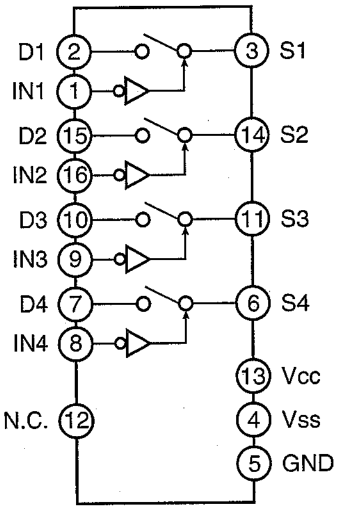
* : Don't care.

3. Audio Board

3.1. IC17 and IC18 on the Audio Board are using the Quad SPST Analog Switch IC YWNJU201AM.

Description of this IC is as follows:


IN1 1
D1 2
S1 3
Vss 4
GND 5
S4 6
D4 7
IN4 8
(TOP VIEW)
16 IN2
15 D2
14 S2
13 Vcc
12 N.C.
11 S3
10 D3
9 IN3

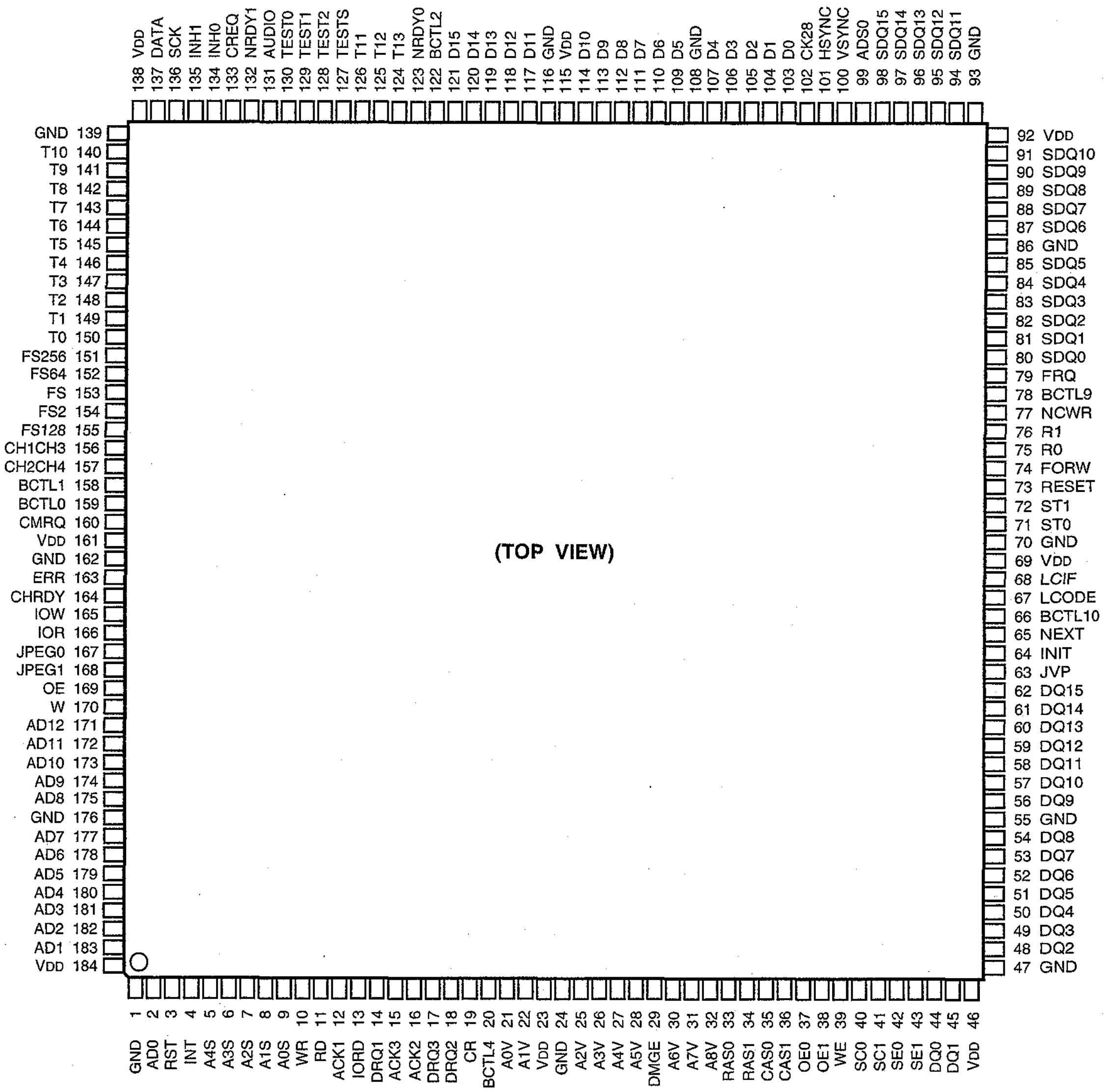

D1 ②
IN1 ①
D2 ⑮
IN2 ⑯
D3 ⑩
IN3 ⑨
D4 ⑦
IN4 ⑧
N.C. ⑫
③ S1
⑭ S2
⑪ S3
⑥ S4
⑬ Vcc
④ Vss
⑤ GND

Truth Table

IN	SWITCH
L	ON
H	OFF

Pin	Name	I/O	Description
1	IN1	I	Control 1 signal input terminal.
2	D1	I/O	Switch 1 input/output terminals.
3	S1	O/I	
4	Vss	–	Negative power supply terminal.
5	GND	–	Ground terminal.
6	S4	O/I	Switch 4 input/output terminals.
7	D4	I/O	
8	IN4	I	Control 4 signal input terminal.
9	IN3	I	Control 3 signal input terminal.
10	D3	I/O	Switch 3 input/output terminals.
11	S3	O/I	
12	N.C.	–	Non connection.
13	Vcc	–	Positive power supply terminal.
14	S2	O/I	Switch 2 input/output terminals.
15	D2	I/O	
16	IN2	I	Control 2 signal input terminal.

3.2. IC8 on the Audio Board is using the FIFO CMOS Gate Array Logic IC YWPD65654218.
Description of this IC is as follows:


138 VDD
137 DATA
136 SCK
135 INH1
134 INH0
133 CREQ
132 NRDY1
131 AUDIO
130 TEST0
129 TEST1
128 TEST2
127 TESTS
126 T11
125 T12
124 T13
123 NRDY0
122 BCTL2
121 D15
120 D14
119 D13
118 D12
117 D11
116 GND
115 VDD
114 D10
113 D9
112 D8
111 D7
110 D6
109 D5
108 GND
107 D4
106 D3
105 D2
104 D1
103 D0
102 CK28
101 HSYNC
100 VSYNC
99 ADS0
98 SDQ15
97 SDQ14
96 SDQ13
95 SDQ12
94 SDQ11
93 GND
GND 139
T10 140
T9 141
T8 142
T7 143
T6 144
T5 145
T4 146
T3 147
T2 148
T1 149
T0 150
FS256 151
FS64 152
FS 153
FS2 154
FS128 155
CH1CH3 156
CH2CH4 157
BCTL1 158
BCTL0 159
CMRQ 160
VDD 161
GND 162
ERR 163
CHRDY 164
IOW 165
IOR 166
JPEG0 167
JPEG1 168
OE 169
W 170
AD12 171
AD11 172
AD10 173
AD9 174
AD8 175
GND 176
AD7 177
AD6 178
AD5 179
AD4 180
AD3 181
AD2 182
AD1 183
VDD 184
92 VDD
91 SDQ10
90 SDQ9
89 SDQ8
88 SDQ7
87 SDQ6
86 GND
85 SDQ5
84 SDQ4
83 SDQ3
82 SDQ2
81 SDQ1
80 SDQ0
79 FRQ
78 BCTL9
77 NCWR
76 R1
75 R0
74 FORW
73 RESET
72 ST1
71 ST0
70 GND
69 VDD
68 LCIF
67 LCODE
66 BCTL10
65 NEXT
64 INIT
63 JVP
62 DQ15
61 DQ14
60 DQ13
59 DQ12
58 DQ11
57 DQ10
56 DQ9
55 GND
54 DQ8
53 DQ7
52 DQ6
51 DQ5
50 DQ4
49 DQ3
48 DQ2
47 GND
(TOP VIEW)
1 GND
2 AD0
3 RST
4 INT
5 A4S
6 A3S
7 A2S
8 A1S
9 A0S
10 WR
11 RD
12 ACK1
13 IORD
14 DRQ1
15 ACK3
16 ACK2
17 DRQ3
18 DRQ2
19 CR
20 BCTL4
21 A0V
22 A1V
23 VDD
24 GND
25 A2V
26 A3V
27 A4V
28 A5V
29 DMGE
30 A6V
31 A7V
32 A8V
33 RAS0
34 RAS1
35 CAS0
36 CAS1
37 OE0
38 OE1
39 WE
40 SC0
41 SC1
42 SE0
43 SE1
44 DQ0
45 DQ1
46 VDD

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	AD0	O	AD signal output terminals. (13-Bit)
3	RST	I	Reset Pulse input terminal.
4	INT	I	INT signal input terminal.
5	A4S	O	A4S signal output terminal.
6	A3S	O	A3S signal output terminal.
7	A2S	O	A2S signal output terminal.
8	A1S	O	A1S signal output terminal.
9	A0S	O	A0S signal output terminal.
10	WR	O	Write signal output terminal.
11	RD	O	Read signal output terminal.
12	ACK1	O	ACK1 signal output terminal.
13	IORD	O	IORD signal output terminal.

Pin	Name	I/O	Description
14	DRQ1	I	DRQ1 signal input terminal.
15	ACK3	O	ACK3 signal output terminal.
16	ACK2	O	ACK2 signal output terminal.
17	DRQ3	I	DRQ3 signal input terminal.
18	DRQ2	I	DRQ2 signal input terminal.
19	CR	O	CR signal output terminal.
20	BCTL4	O	BCTL4 signal output terminal.
21	A0V	O	A0V signal output terminal.
22	A1V	O	A1V signal output terminal.
23	VDD	–	Power supply terminal.
24	Vss	–	Ground terminal.
25	A2V	O	A2V signal output terminal.
26	A3V	O	A3V signal output terminal.

Pin	Name	I/O	Description
27	A4V	O	A4V signal output terminal.
28	A5V	O	A5V signal output terminal.
29	DMEG	O	DMEG signal output terminal.
30	A6V	O	A6V signal output terminal.
31	A7V	O	A7V signal output terminal.
32	A8V	O	A8V signal output terminal.
33	RAS0	O	Row Address Strobe signal output terminals.
34	RAS1	O	
35	CAS0	O	Column Address Strobe signal output terminals.
36	CAS1	O	
37	OE0	O	Output Enable signal output terminals.
38	OE1	O	
39	WE	O	Write Enable signal output terminal.
40	SC0	O	SC signal output terminals.
41	SC1	O	
42	SE0	O	SE signal output terminals.
43	SE1	O	
44	DQ0	I/O	Data input/output terminals. (16-Bit)
45	DQ1	I/O	
46	VDD	–	Power supply terminal.
47	GND	–	Ground terminal.
48	DQ2	I/O	Data input/output terminals. (16-Bit)
49	DQ3	I/O	
50	DQ4	I/O	
51	DQ5	I/O	
52	DQ6	I/O	
53	DQ7	I/O	
54	DQ8	I/O	
55	GND	–	Ground terminal.
56	DQ9	I/O	Data input/output terminals. (16-Bit)
57	DQ10	I/O	
58	DQ11	I/O	
59	DQ12	I/O	
60	DQ13	I/O	
61	DQ14	I/O	
62	DQ15	I/O	
63	JVP	O	JVP signal output terminal.
64	INIT	O	INIT signal output terminal.
65	NEXT	O	NEXT signal output terminal.
66	BCTL10	O	BCTL10 signal output terminal.
67	LCODE	I/O	LCODE signal input/output terminal.
68	LCIF	I	LCIF signal input terminal.
69	VDD	–	Power supply terminal.
70	GND	–	Ground terminal.
71	ST0	I	ST signal input terminals.
72	ST1	I	
73	RESET	O	Reset Pulse output terminal.
74	FORW	O	FORW signal output terminal.
75	R0	O	R signal output terminals.
76	R1	O	

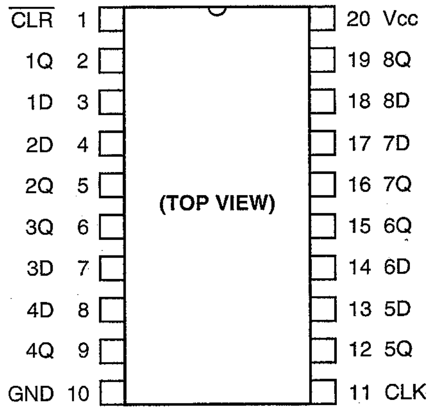
Pin	Name	I/O	Description
77	NCWR	O	NCWR signal output terminal.
78	BCTL9	O	BCTL9 signal output terminal.
79	FRQ	I	FRQ signal input terminal.
80	SDQ0	I/O	S Data input/output terminals. (16-Bit)
81	SDQ1	I/O	
82	SDQ2	I/O	
83	SDQ3	I/O	
84	SDQ4	I/O	
85	SDQ5	I/O	
86	GND	–	Ground terminal.
87	SDQ6	I/O	S Data input/output terminals. (16-Bit)
88	SDQ7	I/O	
89	SDQ8	I/O	
90	SDQ9	I/O	
91	SDQ10	I/O	
92	VDD	–	Power supply terminal.
93	GND	–	Ground terminal.
94	SDQ11	I/O	S Data input/output terminals. (16-Bit)
95	SDQ12	I/O	
96	SDQ13	I/O	
97	SDQ14	I/O	
98	SDQ15	I/O	
99	ADS0	I	ADS0 signal input terminal.
100	VSYNC	I	Vertical Sync signal input terminal.
101	HSYNC	I	Horizontal Sync signal input terminal.
102	CK28	I	Clock Pulse input terminal.
103	D0	I/O	Data input/output terminals. (16-Bit)
104	D1	I/O	
105	D2	I/O	
106	D3	I/O	
107	D4	I/O	
108	GND	–	Ground terminal.
109	D5	I/O	Data input/output terminals. (16-Bit)
110	D6	I/O	
111	D7	I/O	
112	D8	I/O	
113	D9	I/O	
114	D10	I/O	
115	VDD	–	Power supply terminal.
116	GND	–	Ground terminal.
117	D11	I/O	Data input/output terminals. (16-Bit)
118	D12	I/O	
119	D13	I/O	
120	D14	I/O	
121	D15	I/O	
122	BCTL2	O	BCTL2 signal output terminal.
123	NRDY0	I	NRDY0 signal input terminal.
124	T13	I	T signal input terminals. (14-Bit)
125	T12	I	
126	T11	I	

Pin	Name	I/O	Description
127	TESTS	I	Test signal input terminals.
128	TEST2	I	
129	TEST1	I	
130	TEST0	I	
131	AUDIO	I	Audio signal input terminal.
132	NRDY0	I	NRDY0 signal input terminal.
133	CREQ	I/O	CREQ signal input/output terminal.
134	INH0	O	Inhibit signal output terminals.
135	INH1	O	
136	SCK	I	Serial Clock Pulse input terminal.
137	DATA	I	Serial Data input terminal.
138	VDD	–	Power supply terminal.
139	GND	–	Ground terminal.
140	T10	I	T signal input terminals. (14-Bit)
141	T9	I	
142	T8	I	
143	T7	I	
144	T6	I	
145	T5	I	
146	T4	I	
147	T3	I	
148	T2	I	
149	T1	I	
150	T0	I	
151	FS256	I	FS256 Pulse input terminal.
152	FS64	O	FS64 Pulse output terminal.
153	FS	O	FS Pulse output terminal.
154	FS2	O	FS2 Pulse output terminal.
155	FS128	O	FS128 Pulse output terminal.
156	CH1CH3	O	CH1CH3 signal input terminal.
157	CH2CH4	O	CH2CH4 signal input terminal.
158	BCTL1	O	BCTL1 signal output terminal.
159	BCTL0	O	BCTL0 signal output terminal.
160	CMRQ	O	CMRQ signal output terminal.
161	VDD	–	Power supply terminal.
162	GND	–	Ground terminal.
163	ERR	O	Error signal output terminal.
164	CHRDY	O	Channel Ready signal output terminal.
165	IOW	I	IOW signal intput terminal.
166	IOR	I	IOR signal input terminal.
167	JPEG0	I	JPEG0 signal input terminal.
168	JPEG1	I	JPEG1 signal input terminal.
169	OE	O	Output Enable signal output terminal.
170	W	O	W signal output terminal.
171	AD12	O	AD signal output terminals. (13-Bit)
172	AD11	O	
173	AD10	O	
174	AD9	O	
175	AD8	O	
176	GND	–	Ground terminal.

Pin	Name	I/O	Description
177	AD7	O	AD signal output terminals. (13-Bit)
178	AD6	O	
179	AD5	O	
180	AD4	O	
181	AD3	O	
182	AD2	O	
183	AD1	O	
184	VDD	–	Power supply terminal.

3.3. IC40 on the Audio Board is using the Octal D-FFs IC YWMC74HC273AF.

Description of this IC is as follows:



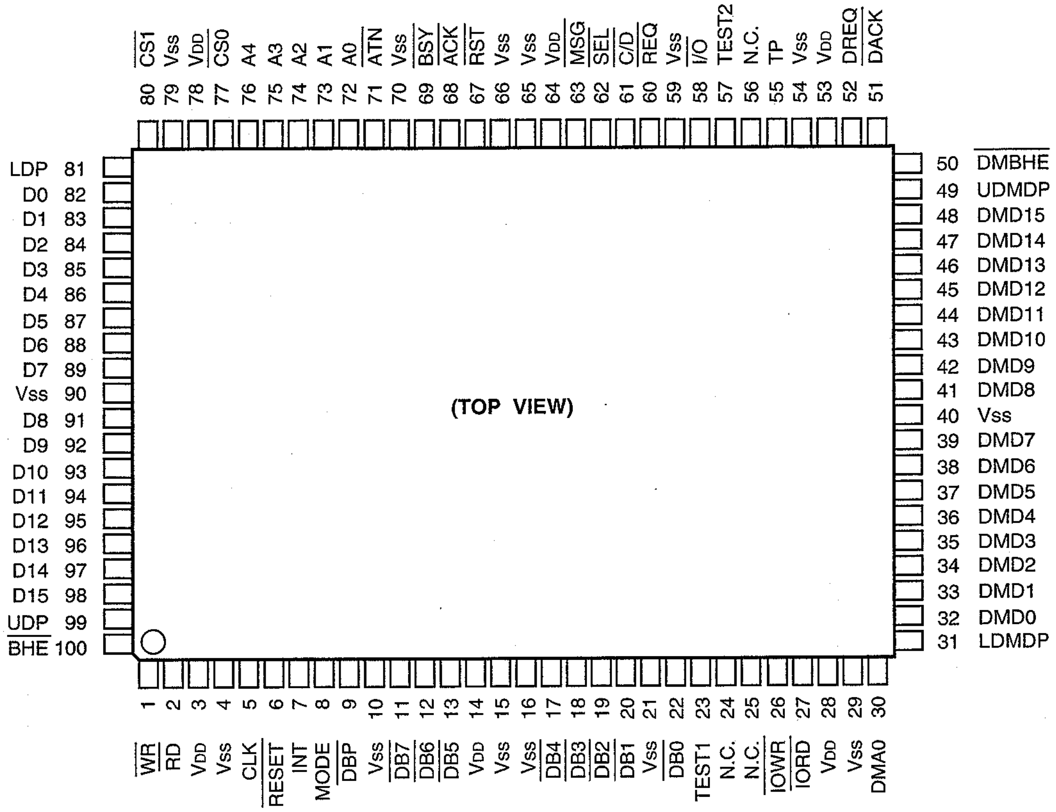
Truth Table

INPUTS			OUTPUTS		FUNCTION
$\overline{CLR}$	D	CLK	Q	$\overline{Q}$	
L	*	*	L	H	Clear
H	L	↑	L	H	——
H	H	↑	H	L	——
H	*	↓	Qn	$\overline{Qn}$	No Change

* : Don't care.

3.4. IC25 on the Audio Board, IC16 on the JPEG/SCSI-1 Board, IC216 and IC16 on the JPEG/SCSI-2 Board are using the SCSI Interface IC YWMB86601APF.

Description of this IC is as follows:


(TOP VIEW)
80 CS1
79 Vss
78 VDD
77 CS0
76 A4
75 A3
74 A2
73 A1
72 A0
71 ATN
70 Vss
69 BSY
68 ACK
67 RST
66 Vss
65 Vss
64 VDD
63 MSG
62 SEL
61 C/D
60 REQ
59 Vss
58 I/O
57 TEST2
56 N.C.
55 TP
54 Vss
53 VDD
52 DREQ
51 DACK
LDP 81
D0 82
D1 83
D2 84
D3 85
D4 86
D5 87
D6 88
D7 89
Vss 90
D8 91
D9 92
D10 93
D11 94
D12 95
D13 96
D14 97
D15 98
UDP 99
BHE 100
50 DMBHE
49 UDMDP
48 DMD15
47 DMD14
46 DMD13
45 DMD12
44 DMD11
43 DMD10
42 DMD9
41 DMD8
40 Vss
39 DMD7
38 DMD6
37 DMD5
36 DMD4
35 DMD3
34 DMD2
33 DMD1
32 DMD0
31 LDMDP
1 WR
2 RD
3 VDD
4 Vss
5 CLK
6 RESET
7 INT
8 MODE
9 DBP
10 Vss
11 DB7
12 DB6
13 DB5
14 VDD
15 Vss
16 Vss
17 DB4
18 DB3
19 DB2
20 DB1
21 Vss
22 DB0
23 TEST1
24 N.C.
25 N.C.
26 IOWR
27 IORD
28 VDD
29 Vss
30 DMA0

Pin	Name	I/O	Description
1	$\overline{\text{WR}}$	I	Write signal input terminal.
2	$\overline{\text{RD}}$	I	Read signal input terminal.
3	VDD	–	Power supply terminal.
4	Vss	–	Ground terminal.
5	CLK	I	Clock Pulse input terminal.
6	$\overline{\text{RESET}}$	I	Reset Pulse input terminal.
7	INT	O	Interrupt signal output terminal.
8	MODE	I	MODE signal input terminal.
9	DBP	I/O	DBP signal input/output terminal.
10	Vss	–	Ground terminal.
11	$\overline{\text{DB7}}$	I/O	SCSI Interface Data input/output terminals. (8-Bit)
12	$\overline{\text{DB6}}$	I/O	
13	$\overline{\text{DB5}}$	I/O	
14	VDD	–	Power supply terminal.
15	Vss	–	Ground terminal.
16	Vss	–	Ground terminal.
17	$\overline{\text{DB4}}$	I/O	SCSI Interface Data input/output terminals. (8-Bit)
18	$\overline{\text{DB3}}$	I/O	

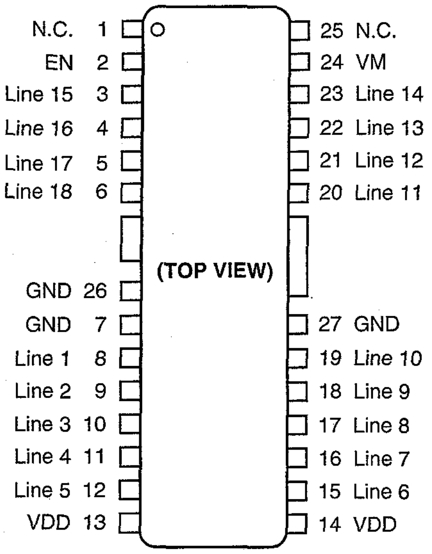
Pin	Name	I/O	Description
19	$\overline{\text{DB2}}$	I/O	SCSI Interface Data input/output terminals. (8-Bit)
20	$\overline{\text{DB1}}$	I/O	
21	Vss	–	Ground terminal.
22	$\overline{\text{DB0}}$	I/O	SCSI Interface Data input/output terminals. (8-Bit)
23	TEST1	I	Test signal input terminal.
24	N.C.	–	Non connection.
25	N.C.	–	Non connection.
26	$\overline{\text{IOWR}}$	I	DMA Interface Write signal input terminal.
27	$\overline{\text{IORD}}$	I	DMA Interface Read signal input terminal.
28	VDD	–	Power supply terminal.
29	Vss	–	Ground terminal.
30	DMA0	I	DMA0 signal input terminal.
31	LDMDP	I/O	LDMDP signal input/output terminal.
32	DMD0	I/O	DMA Interface Data input/output terminals. (16-Bit)
33	DMD1	I/O	
34	DMD2	I/O	

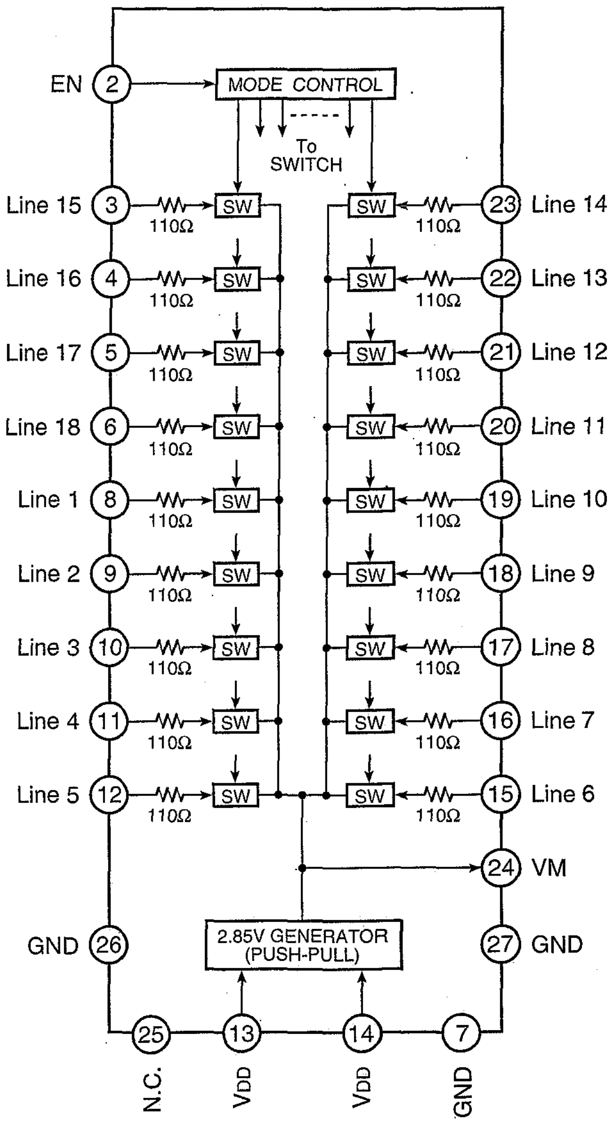
Pin	Name	I/O	Description
35	DMD3	I/O	DMA Interface Data input/output terminals. (16-Bit)
36	DMD4	I/O	
37	DMD5	I/O	
38	DMD6	I/O	
39	DMD7	I/O	
40	Vss	–	Ground terminal.
41	DMD8	I/O	DMA Interface Data input/output terminals. (16-Bit)
42	DMD9	I/O	
43	DMD10	I/O	
44	DMD11	I/O	
45	DMD12	I/O	
46	DMD13	I/O	
47	DMD14	I/O	
48	DMD15	I/O	
49	UDMDP	I/O	UDMDP signal input/output terminal.
50	$\overline{\text{DMBHE}}$	I	$\overline{\text{DMBHE}}$ signal input terminal.
51	$\overline{\text{DACK}}$	I	$\overline{\text{DACK}}$ signal input terminal.
52	DREQ	O	DREQ signal output terminal.
53	VDD	–	Power supply terminal.
54	Vss	–	Ground terminal.
55	TP	I	TP signal input terminal.
56	N.C.	–	Non connection.
57	TEST2	I	Test signal input terminal.
58	$\overline{\text{I/O}}$	I/O	$\overline{\text{I/O}}$ signal input/output terminal.
59	Vss	–	Ground terminal.
60	$\overline{\text{REQ}}$	I/O	$\overline{\text{REQ}}$ signal input/output terminal.
61	$\overline{\text{C/D}}$	I/O	$\overline{\text{C/D}}$ signal input/output terminal.
62	$\overline{\text{SEL}}$	I/O	$\overline{\text{SEL}}$ signal input/output terminal.
63	$\overline{\text{MSG}}$	I/O	$\overline{\text{MSG}}$ signal input/output terminal.
64	VDD	–	Power supply terminal.
65	Vss	–	Ground terminal.
66	Vss	–	Ground terminal.
67	$\overline{\text{RST}}$	I/O	Reset Pulse input/output terminal.
68	$\overline{\text{ACK}}$	I/O	$\overline{\text{ACK}}$ signal input/output terminal.
69	$\overline{\text{BSY}}$	I/O	Busy signal input/output terminal.
70	Vss	–	Ground terminal.
71	$\overline{\text{ATN}}$	I/O	$\overline{\text{ATN}}$ signal input/output terminal.
72	A0	I	Address signal input terminals. (5-Bit)
73	A1	I	
74	A2	I	
75	A3	I	
76	A3	I	
77	$\overline{\text{CS0}}$	I	Chip Select signal input terminal.
78	VDD	–	Power supply terminal.
79	Vss	–	Ground terminal.

Pin	Name	I/O	Description
80	$\overline{\text{CS0}}$	I	Chip Select signal input terminal.
81	LDP	I/O	LDP signal input/output terminal.
82	D0	I/O	MPU Interface Data input/output terminals. (16-Bit)
83	D1	I/O	
84	D2	I/O	
85	D3	I/O	
86	D4	I/O	
87	D5	I/O	
88	D6	I/O	
89	D7	I/O	
90	Vss	–	Ground terminal.
91	D8	I/O	MPU Interface Data input/output terminals. (16-Bit)
92	D9	I/O	
93	D10	I/O	
94	D11	I/O	
95	D12	I/O	
96	D13	I/O	
97	D14	I/O	
98	D15	I/O	
99	UDP	I/O	UDP signal input/output terminal.
100	$\overline{\text{BHE}}$	I	$\overline{\text{BHE}}$ signal input terminal.

3.5. IC26 on the Audio Board, IC17 on the JPEG/SCSI-1 Board, IC215 and IC17 on the JPEG/SCSI-2 Board are using the SCSI Terminator IC YWBH9595FPY.

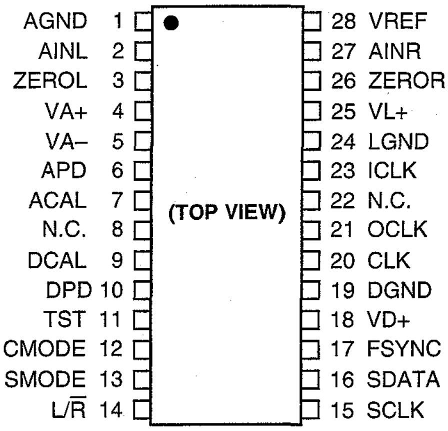
Description of this IC is as follows:

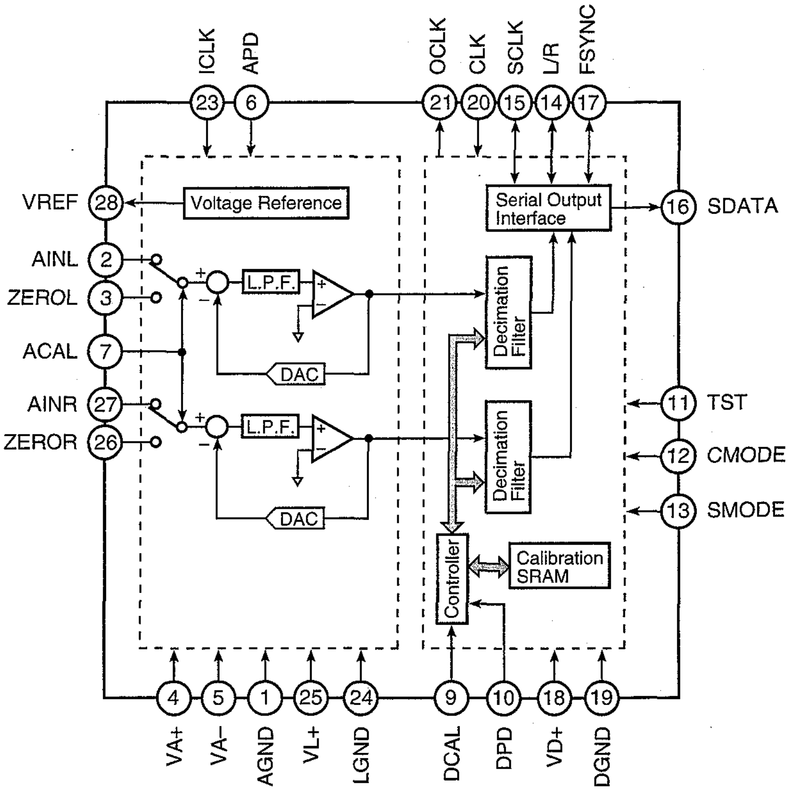

N.C. 1
EN 2
Line 15 3
Line 16 4
Line 17 5
Line 18 6
GND 26
GND 7
Line 1 8
Line 2 9
Line 3 10
Line 4 11
Line 5 12
VDD 13
25 N.C.
24 VM
23 Line 14
22 Line 13
21 Line 12
20 Line 11
27 GND
19 Line 10
18 Line 9
17 Line 8
16 Line 7
15 Line 6
14 VDD
(TOP VIEW)


EN 2
MODE CONTROL
To SWITCH
Line 15 3
Line 16 4
Line 17 5
Line 18 6
Line 1 8
Line 2 9
Line 3 10
Line 4 11
Line 5 12
SW
110Ω
23 Line 14
22 Line 13
21 Line 12
20 Line 11
19 Line 10
18 Line 9
17 Line 8
16 Line 7
15 Line 6
24 VM
GND 26
2.85V GENERATOR (PUSH-PULL)
27 GND
25 N.C.
13 VDD
14 VDD
7 GND

Pin	Name	I/O	Description
1	N.C.	–	Non connection.
2	EN	I	Enable signal input terminal.
3	Line 15	O	SCS1 Line terminator terminals. (18-Line) Hi-Impedance when EN = L; connected 2.85V through resistors when EN = H.
4	Line 16	O	
5	Line 17	O	
6	Line 18	O	
7	GND	–	Ground terminal.
8	Line 1	O	SCS1 Line terminator terminals. (18-Line) Hi-Impedance when EN = L; connected 2.85V through resistors when EN = H.
9	Line 2	O	
10	Line 3	O	
11	Line 4	O	
12	Line 5	O	
13	VDD	–	Power supply terminal.
14	VDD	–	Power supply terminal.
15	Line 6	O	SCS1 Line terminator terminals. (18-Line) Hi-Impedance when EN = L; connected 2.85V through resistors when EN = H.
16	Line 7	O	
17	Line 8	O	
18	Line 9	O	
19	Line 10	O	
20	Line 11	O	
21	Line 12	O	
22	Line 13	O	
23	Line 14	O	
24	VM	O	2.85V Phase Compensation and de-cupling capacitor connecting terminal.
25	N.C.	–	Non connection.
26	GND	–	Ground terminal.
27	GND	–	Ground terminal.

3.6. IC7 on the Audio Board is using the 16-Bit 2-ch A/D Converters IC YWAK5339VS.
Description of this IC is as follows:

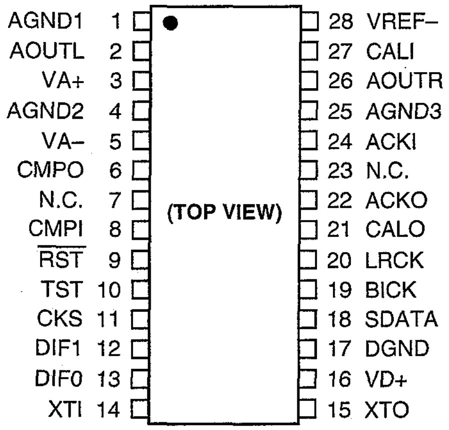

AGND 1
AINL 2
ZEROL 3
VA+ 4
VA– 5
APD 6
ACAL 7
N.C. 8
DCAL 9
DPD 10
TST 11
CMODE 12
SMODE 13
L/R̄ 14
(TOP VIEW)
28 VREF
27 AINR
26 ZEROR
25 VL+
24 LGND
23 ICLK
22 N.C.
21 OCLK
20 CLK
19 DGND
18 VD+
17 FSYNC
16 SDATA
15 SCLK


ICLK
APD
OCLK
CLK
SCLK
L/R̄
FSYNC
23
6
21
20
15
14
17
VREF 28
Voltage Reference
Serial Output Interface
16 SDATA
AINL 2
ZEROL 3
ACAL 7
AINR 27
ZEROR 26
L.P.F.
DAC
L.P.F.
DAC
Decimation Filter
Decimation Filter
11 TST
12 CMODE
13 SMODE
Controller
Calibration SRAM
4
5
1
25
24
9
10
18
19
VA+
VA–
AGND
VL+
LGND
DCAL
DPD
VD+
DGND

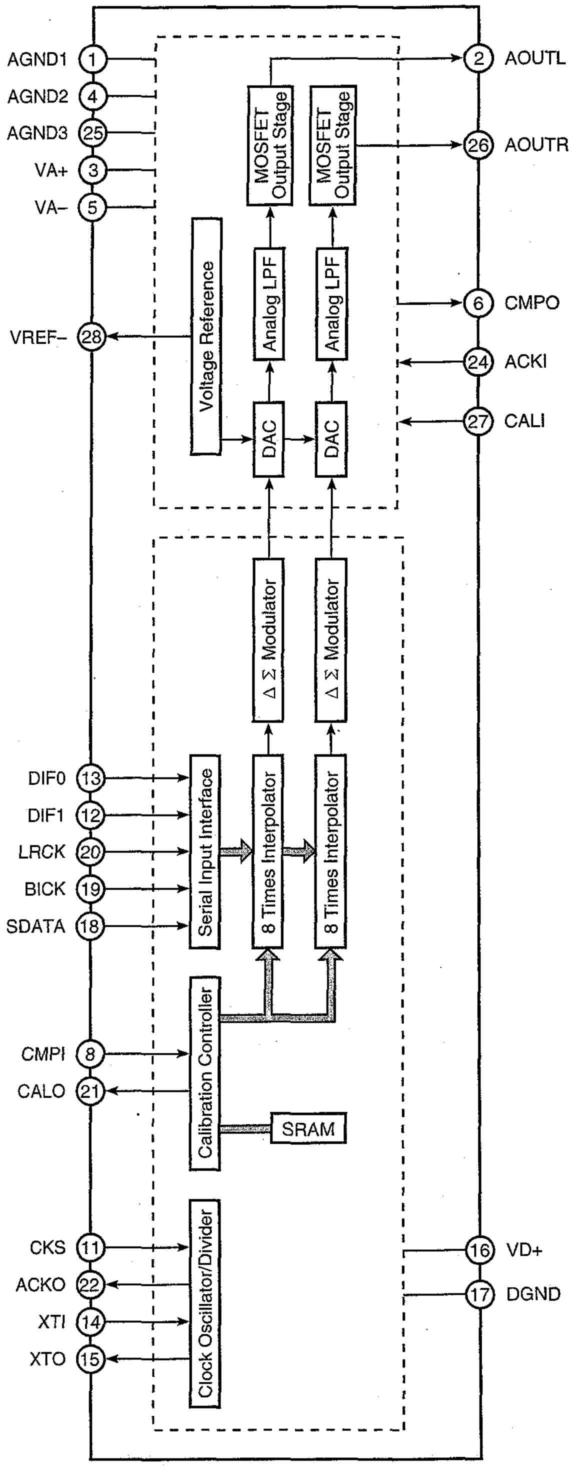
Pin	Name	I/O	Description
1	AGND	–	Ground terminal for Analog circuit.
2	AINL	I	Lch Analog signal input terminal.
3	ZEROL	I	Lch Zero Level signal input terminal.
4	VA+	–	Positive power supply terminal for Analog circuit.
5	VA–	–	Negative power supply terminal for Analog circuit.
6	APD	I	Analog Power Down signal input terminal.
7	ACAL	I	Analog Calibration signal input terminal.
8	N.C.	–	Non connection.
9	DCAL	O	Digital Calibration signal output terminal.
10	DPD	I	Digital Power Down signal input terminal.
11	TST	I	Test signal input terminal.
12	CMODE	I	Master Clock Pulse Select signal input terminal. L: CLK=256fs (12.288MHz @fs=48kHz) H: CLK=384fs (18.432MHz @fs=48kHz)
13	SMODE	I	Interface Clock Pulse Select signal input terminal. L: Slave mode H: Master mode
14	L/R̄	I/O	Input Channel Select terminal. fs Clock Pulse input at Slave mode and fs Clock Pulse output at Master mode.

Pin	Name	I/O	Description
15	SCLK	I/O	Serial Data Clock Pulse terminal. 32fs - 64fs Clock Pulse input at Slave mode and 64fs Clock Pulse output at Master mode.
16	SDATA	O	Serial Data output terminal.
17	FSYNC	I/O	Frame Sync Clock Pulse terminal. SDATA output enable when H at Slave mode and 2fs Clock Pulse output at Master mode.
18	VD+	–	Positive power supply terminal for Digital circuit.
19	DGND	–	Ground terminal for Digital circuit.
20	CLK	I	Master Clock Pulse input terminal. 384MHz when CMODE = H 256MHz when CMODE = L
21	OCLK	O	128fs Clock Pulse output terminal.
22	N.C.	–	Non connection.
23	ICLK	I	128fs Clock Pulse input terminal.
24	LGND	–	Ground terminal for Logic circuit.
25	VL+	–	Power supply terminal for Logic circuit.
26	ZEROR	I	Rch Zero Level signal input terminal.
27	AINR	I	Rch Analog signal input terminal.
28	VREF	O	Reference Voltage (–3.68V) output terminal.

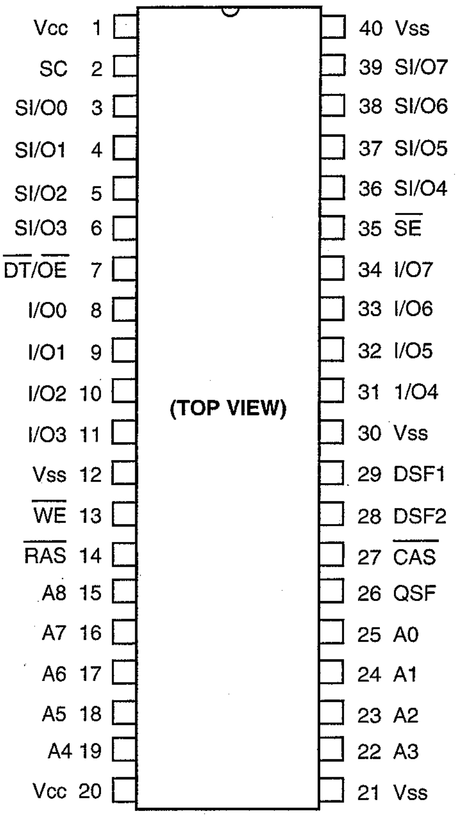
3.7. IC42 on the Audio Board is using the 18-Bit 2-ch D/A Converters with Build-in Analog Filter IC YWAK4328VS. Description of this IC is as follows:


AGND1 1
AOUTL 2
VA+ 3
AGND2 4
VA– 5
CMPO 6
N.C. 7
CMPI 8
RST 9
TST 10
CKS 11
DIF1 12
DIF0 13
XTI 14
28 VREF–
27 CALI
26 AOUTR
25 AGND3
24 ACKI
23 N.C.
22 ACKO
21 CALO
20 LRCK
19 BICK
18 SDATA
17 DGND
16 VD+
15 XTO
(TOP VIEW)

Pin	Name	I/O	Description
1	AGND1	I	Ground terminal for Analog circuit.
2	AOUTL	O	Lch Analog signal output terminal.
3	VA+	–	Positive power supply terminal for Analog circuit.
4	AGND2	I	Ground terminal for Analog circuit.
5	VA–	–	Negative power supply terminal for Analog circuit.
6	CMPO	O	Comparator output terminal.
7	N.C.	–	Non connection.
8	CMPI	I	Comparator input terminal.
9	RST	I	Reset Pulse/Calibration input terminal.
10	TST	I	Test signal input terminal.
11	CKS	I	Clock Pulse Selection signal input terminal.
12	DIF1	I	Digital Input Data Format Selecting signal input terminals.
13	DIF0	I	
14	XTI	I	Clock Pulse input terminal.
15	XTO	O	Crystal Oscillator output terminal.
16	VD+	–	Positive power supply terminal for Digital.
17	DGND	–	Ground terminal for Digital circuit.
18	SDATA	I	Serial Data input terminal.
19	BICK	I	Serial Bit Clock Pulse input terminal.
20	LRCK	I	L/R Clock Pulse input terminal.
21	CALO	O	Calibration output terminal.
22	ACKO	O	Analog Clock Pulse output terminal.
23	N.C.	–	Non connection.
24	ACKI	I	Analog Clock Pulse input terminal.
25	AGND3	I	Ground terminal for Analog circuit.
26	AOUTR	O	Rch Analog signal output terminal.
27	CALI	I	Calibration input terminal.
28	VREF–	O	Negative Reference Voltage output terminal.

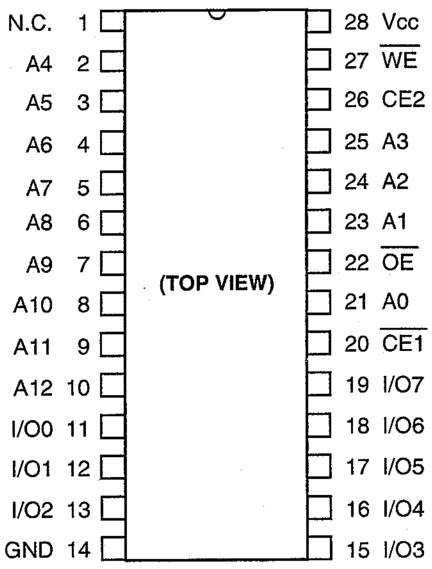

AGND1 1
AGND2 4
AGND3 25
VA+ 3
VA– 5
VREF– 28
2 AOUTL
26 AOUTR
6 CMPO
24 ACKI
27 CALI
MOSFET Output Stage
MOSFET Output Stage
Voltage Reference
Analog LPF
Analog LPF
DAC
DAC
Δ Σ Modulator
Δ Σ Modulator
DIF0 13
DIF1 12
LRCK 20
BICK 19
SDATA 18
Serial Input Interface
8 Times Interpolator
8 Times Interpolator
CMPI 8
CALO 21
Calibration Controller
SRAM
CKS 11
ACKO 22
XTI 14
XTO 15
Clock Oscillator/Divider
16 VD+
17 DGND

3.8. IC1-IC4 on the Audio Board are using the 256K-word x 8-Bit CMOS Multiport Video RAM IC YWHM538253.
Description of this IC is as follows:


Vcc 1
SC 2
SI/O0 3
SI/O1 4
SI/O2 5
SI/O3 6
$\overline{\mathrm{DT}}/\overline{\mathrm{OE}}$ 7
I/O0 8
I/O1 9
I/O2 10
I/O3 11
Vss 12
$\overline{\mathrm{WE}}$ 13
$\overline{\mathrm{RAS}}$ 14
A8 15
A7 16
A6 17
A5 18
A4 19
Vcc 20
(TOP VIEW)
40 Vss
39 SI/O7
38 SI/O6
37 SI/O5
36 SI/O4
35 $\overline{\mathrm{SE}}$
34 I/O7
33 I/O6
32 I/O5
31 1/O4
30 Vss
29 DSF1
28 DSF2
27 $\overline{\mathrm{CAS}}$
26 QSF
25 A0
24 A1
23 A2
22 A3
21 Vss

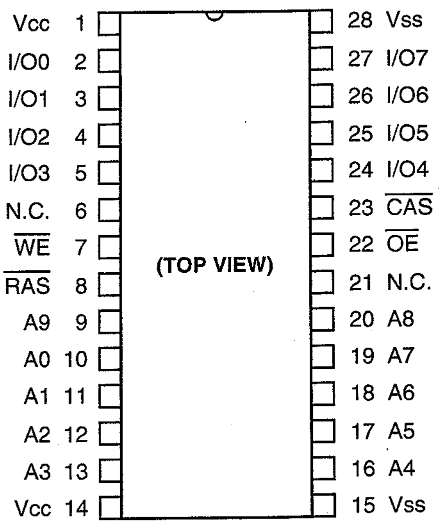
Pin	Name	I/O	Description
1	Vcc	–	Power supply terminal.
2	SC	I	Serial Clock Pulse input terminal.
3	SI/O0	I/O	SAM Port Data input/output terminals. (8-Bit)
4	SI/O1	I/O	
5	SI/O2	I/O	
6	SI/O3	I/O	
7	$\overline{\mathrm{DT}}/\overline{\mathrm{OE}}$	I	Data Transfer signal input terminal or Output Enable signal input terminal.
8	I/O0	I/O	RAM Port Data input/output terminals. (8-Bit)
9	I/O1	I/O	
10	I/O2	I/O	
11	I/O3	I/O	
12	Vss	–	Ground terminal.
13	$\overline{\mathrm{WE}}$	I	Write Enable signal input terminal.
14	$\overline{\mathrm{RAS}}$	I	Row Address Strobe signal input terminal.
15	A8	I	Address signal input terminals. (9-Bit)
16	A7	I	Address signal input terminals. (9-Bit)
17	A6	I	
18	A5	I	
19	A4	I	
20	Vcc	–	Power supply terminal.
21	Vss	–	Ground terminal.
22	A3	I	Address signal input terminals. (9-Bit)
23	A2	I	
24	A1	I	
25	A0	I	
26	QSF	O	Special Function Flag output terminal.
27	$\overline{\mathrm{CAS}}$	I	Column Address Strobe signal input terminal.
28	DSF2	I	Special Function Flag input terminal.
29	DSF1	I	Special Function Flag input terminal.
30	Vss	–	Ground terminal.
31	I/O4	I/O	RAM Port Data input/output terminals. (8-Bit)
32	I/O5	I/O	
33	I/O6	I/O	
34	I/O7	I/O	
35	$\overline{\mathrm{SE}}$	I	$\overline{\mathrm{SE}}$ signal input terminal.
36	SI/O4	I/O	SAM Port Data input/output terminals. (8-Bit)
37	SI/O5	I/O	
38	SI/O6	I/O	
39	SI/O7	I/O	
40	Vss	–	Ground terminal.

3.9. IC5 on the Audio Board, IC12, IC13 and IC22 on the JPEG/SCSI-1 Board, IC211, IC212 and IC221 on the JPEG/SCSI- 2 Board, IC23, IC27 and IC31 on the CG Board and IC22 on the JPEG/SCSI-2 Board are using the 8K-word x 8-Bit Static RAM IC YWCY7C18515V.
Description of this IC is as follows:


N.C. 1
A4 2
A5 3
A6 4
A7 5
A8 6
A9 7
A10 8
A11 9
A12 10
I/O0 11
I/O1 12
I/O2 13
GND 14
(TOP VIEW)
28 Vcc
27 $\overline{\text{WE}}$
26 CE2
25 A3
24 A2
23 A1
22 $\overline{\text{OE}}$
21 A0
20 $\overline{\text{CE1}}$
19 I/O7
18 I/O6
17 I/O5
16 I/O4
15 I/O3

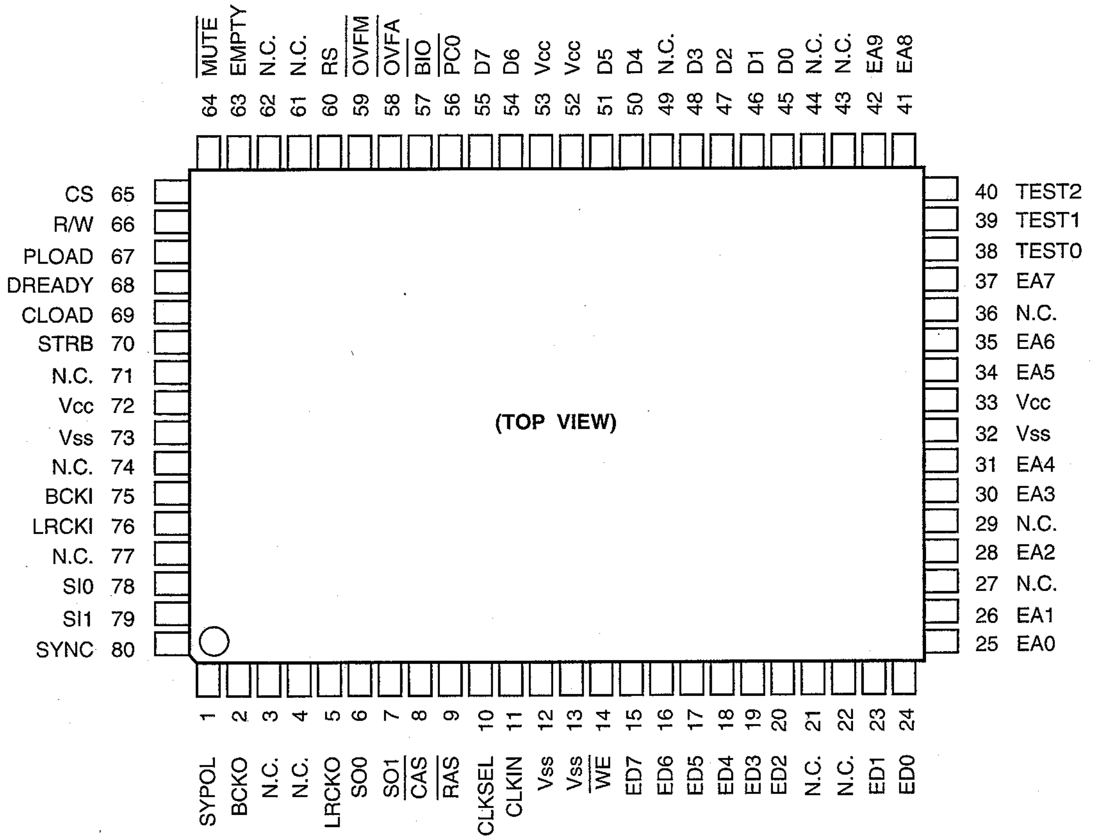
Pin	Name	I/O	Description
1	N.C.	–	Non connection.
2	A4	I	Address signal input terminals. (13-Bit)
3	A5	I	
4	A6	I	
5	A7	I	
6	A8	I	
7	A9	I	
8	A10	I	
9	A11	I	
10	A12	I	
11	I/O0	I/O	DATA Bus terminals. (8-Bit)
12	I/O1	I/O	
13	I/O2	I/O	
14	GND	–	Ground terminal.
15	I/O3	I/O	DATA Bus terminals. (8-Bit)
16	I/O4	I/O	
17	I/O5	I/O	
18	I/O6	I/O	
19	I/O7	I/O	
20	$\overline{\text{CE1}}$	I	Chip Enable signal input terminal.
21	A0	I	Address signal input terminal. (13-Bit)
22	$\overline{\text{OE}}$	I	Output Enable signal input terminal.
23	A1	I	Address signal input terminals. (13-Bit)
24	A2	I	
25	A3	I	
26	CE2	I	Chip Enable signal input terminal.
27	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
28	Vcc	–	Power supply terminal.

3.10. IC9 on the Audio Board is using the 524,288-word x 8-Bit CMOS Dynamic RAM IC YW514800ALJ8. Description of this IC is as follows:


Vcc 1
I/O0 2
I/O1 3
I/O2 4
I/O3 5
N.C. 6
$\overline{\text{WE}}$ 7
$\overline{\text{RAS}}$ 8
A9 9
A0 10
A1 11
A2 12
A3 13
Vcc 14
(TOP VIEW)
28 Vss
27 I/O7
26 I/O6
25 I/O5
24 I/O4
23 $\overline{\text{CAS}}$
22 $\overline{\text{OE}}$
21 N.C.
20 A8
19 A7
18 A6
17 A5
16 A4
15 Vss

Pin	Name	I/O	Description
1	Vcc	–	Power supply terminal.
2	I/O0	I/O	Data input/output terminals. (8-Bit)
3	I/O1	I/O	
4	I/O2	I/O	
5	I/O3	I/O	
6	N.C.	–	Non connection.
7	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
8	$\overline{\text{RAS}}$	I	Row Address Strobe signal input terminal.
9	A9	I	Address signal input terminals. (10-Bit)
10	A0	I	
11	A1	I	
12	A2	I	
13	A3	I	
14	Vcc	–	Power supply terminal.
15	Vss	–	Ground terminal.
16	A4	I	Address signal input terminals. (10-Bit)
17	A5	I	
18	A6	I	
19	A7	I	
20	A8	I	
21	N.C.	–	Non connection.
22	$\overline{\text{OE}}$	I	Output Enable signal input terminal.
23	$\overline{\text{CAS}}$	I	Column Address Strobe signal input terminal.
24	I/O4	I/O	Data input/output terminals. (8-Bit)
25	I/O5	I/O	
26	I/O6	I/O	
27	I/O7	I/O	
28	Vss	–	Ground terminal.

3.11. IC13 on the Audio Board is using the Digital Signal Processor IC YWTMS57002BH.
Description of this IC is as follows:


64 $\overline{\text{MUTE}}$
63 EMPTY
62 N.C.
61 N.C.
60 RS
59 $\overline{\text{OVFM}}$
58 $\overline{\text{OVFA}}$
57 $\overline{\text{BIO}}$
56 $\overline{\text{PC0}}$
55 D7
54 D6
53 Vcc
52 Vcc
51 D5
50 D4
49 N.C.
48 D3
47 D2
46 D1
45 D0
44 N.C.
43 N.C.
42 EA9
41 EA8
CS 65
R/W 66
PLOAD 67
DREADY 68
CLOAD 69
STRB 70
N.C. 71
Vcc 72
Vss 73
N.C. 74
BCKI 75
LRCKI 76
N.C. 77
SI0 78
SI1 79
SYNC 80
40 TEST2
39 TEST1
38 TEST0
37 EA7
36 N.C.
35 EA6
34 EA5
33 Vcc
32 Vss
31 EA4
30 EA3
29 N.C.
28 EA2
27 N.C.
26 EA1
25 EA0
(TOP VIEW)
1 SYPOL
2 BCKO
3 N.C.
4 N.C.
5 LRCKO
6 SO0
7 SO1
8 $\overline{\text{CAS}}$
9 $\overline{\text{RAS}}$
10 CLKSEL
11 CLKIN
12 Vss
13 Vss
14 $\overline{\text{WE}}$
15 ED7
16 ED6
17 ED5
18 ED4
19 ED3
20 ED2
21 N.C.
22 N.C.
23 ED1
24 ED0

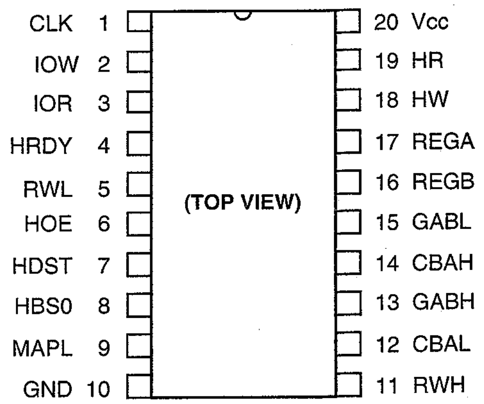
Pin	Name	I/O	Description
1	SYPOL	O	SYPOL signal output terminal.
2	BCKO	O	Bit Clock Pulse output terminal.
3	N.C.	–	Non connection.
4	N.C.	–	Non connection.
5	LRCKO	O	LR Clock Pulse output terminal.
6	SO0	O	Serial Data output terminal.
7	SO1	O	Serial Data output terminal.
8	$\overline{\text{CAS}}$	O	Column Address Strobe signal output terminal.
9	$\overline{\text{RAS}}$	O	Row Address Strobe signal output terminal.
10	CLKSEL	I	Clock Select signal input terminal.
11	CLKIN	I	Clock Pulse input terminal.
12	Vss	–	Ground terminal.
13	Vss	–	Ground terminal.
14	$\overline{\text{WE}}$	O	Write Enable signal output terminal.
15	ED7	I/O	ED Data input/output terminals. (8-Bit)
16	ED6	I/O	
17	ED5	I/O	

Pin	Name	I/O	Description
18	ED4	I/O	ED Data input/output terminals. (8-Bit)
19	ED3	I/O	
20	ED2	I/O	
21	N.C.	–	Non connection.
22	N.C.	–	Non connection.
23	ED1	I/O	ED Data input/output terminals. (8-Bit)
24	ED0	I/O	
25	EA0	O	Address signal output terminals. (10-Bit)
26	EA1	O	
27	N.C.	–	Non connection.
28	EA2	O	Address signal output terminals. (10-Bit)
29	N.C.	–	Non connection.
30	EA3	O	Address signal output terminals. (10-Bit)
31	EA4	O	
32	Vss	–	Ground terminal.
33	Vcc	–	Power supply terminal.
34	EA5	O	Address signal output terminals. (10-Bit)
35	EA6	O	

Pin	Name	I/O	Description
36	N.C.	–	Non connection.
37	EA7	O	Address signal output terminals. (10-Bit)
38	TEST0	I	Test signal input terminals.
39	TEST1	I	
40	TEST2	I	
41	EA8	O	Address signal output terminals. (10-Bit)
42	EA9	O	
43	N.C.	–	Non connection.
44	N.C.	–	Non connection.
45	D0	I	Data input terminals. (10-Bit)
46	D1	I	
47	D2	I	
48	D3	I	
49	N.C.	–	Non connection.
50	D4	I	Data input terminals. (10-Bit)
51	D5	I	
52	Vcc	–	Power supply terminal.
53	Vcc	–	Power supply terminal.
54	D6	I	Data input terminals. (10-Bit)
55	D7	I	
56	PC0	O	PC0 signal output terminal.
57	BIO	I/O	BIO signal input/output terminal.
58	OVFA	O	OVFA signal output terminal.
59	OVFM	O	OVFM signal output terminal.
60	RS	I	RS signal input terminal.
61	N.C.	–	Non connection.
62	N.C.	–	Non connection.
63	EMPTY	I	Empty signal input terminal.
64	MUTE	I	Mute signal input terminal.
65	CS	I	Chip Select signal input terminal.
66	R/W	I	Read/Write signal input terminal.
67	PLOAD	I	PLOAD signal input terminal.
68	DREADY	O	DREADY signal output terminal.
69	CLOAD	I	CLOAD signal input terminal.
70	STRB	I	Strobe signal input terminal.
71	N.C.	–	Non connection.
72	Vcc	–	Power supply terminal.
73	Vss	–	Ground terminal.
74	N.C.	–	Non connection.
75	BCKI	I	Bit Clock Pulse input terminal.
76	LRCKI	I	LR Clock Pulse input terminal.
77	N.C.	–	Non connection.
78	SI0	I	Serial Data input terminal.
79	SI1	I	Serial Data input terminal.
80	SYNC	I	Sync signal input terminal.

3.12. IC27 on the Audio Board is using the GSP Logic Control IC YW18CV8AV008.

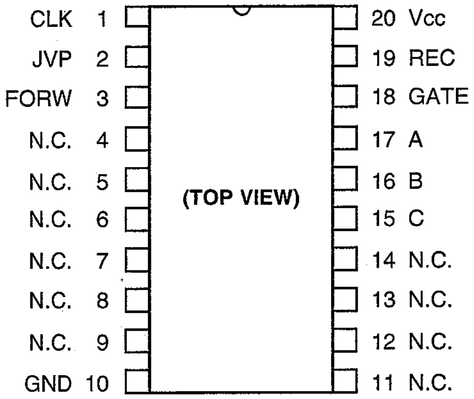
Description of this IC is as follows:



Pin	Name	I/O	Description
1	CLK	I	Clock Pulse input terminal.
2	IOW	I	IOW signal input terminal.
3	IOR	I	IOR signal input terminal.
4	HRDY	I	HRDY signal input terminal.
5	RWL	I	RWL signal input terminal.
6	HOE	I	HOE signal input terminal.
7	HDST	I	HDST signal input terminal.
8	HBS0	I	HBS0 signal input terminal.
9	MAPL	I	MAPL signal input terminal.
10	GND	–	Ground terminal.
11	RWH	I	RWH signal input terminal.
12	CBAL	O	CBAL signal output terminal.
13	GABH	O	GABH signal output terminal.
14	CBAH	O	CBAH signal output termina.
15	GABL	O	GABL signal output terminal.
16	REGB	O	REGB signal output terminal.
17	REGA	O	REGB signal output terminal.
18	HW	O	HW signal output terminal.
19	HR	O	HR signal output terminal.
20	Vcc	–	Power supply terminal.

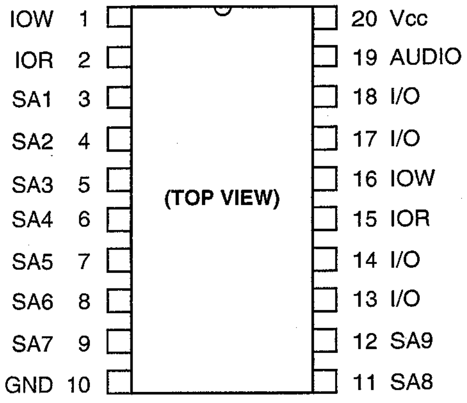
4. JPEG/SCSI-1 Board

4.1. IC50 on the JPEG/SCSI-1 Board is using the Logic Control IC YW18CV8SAV12.
Description of this IC is as follows:


CLK 1
JVP 2
FORW 3
N.C. 4
N.C. 5
N.C. 6
N.C. 7
N.C. 8
N.C. 9
GND 10
(TOP VIEW)
20 Vcc
19 REC
18 GATE
17 A
16 B
15 C
14 N.C.
13 N.C.
12 N.C.
11 N.C.

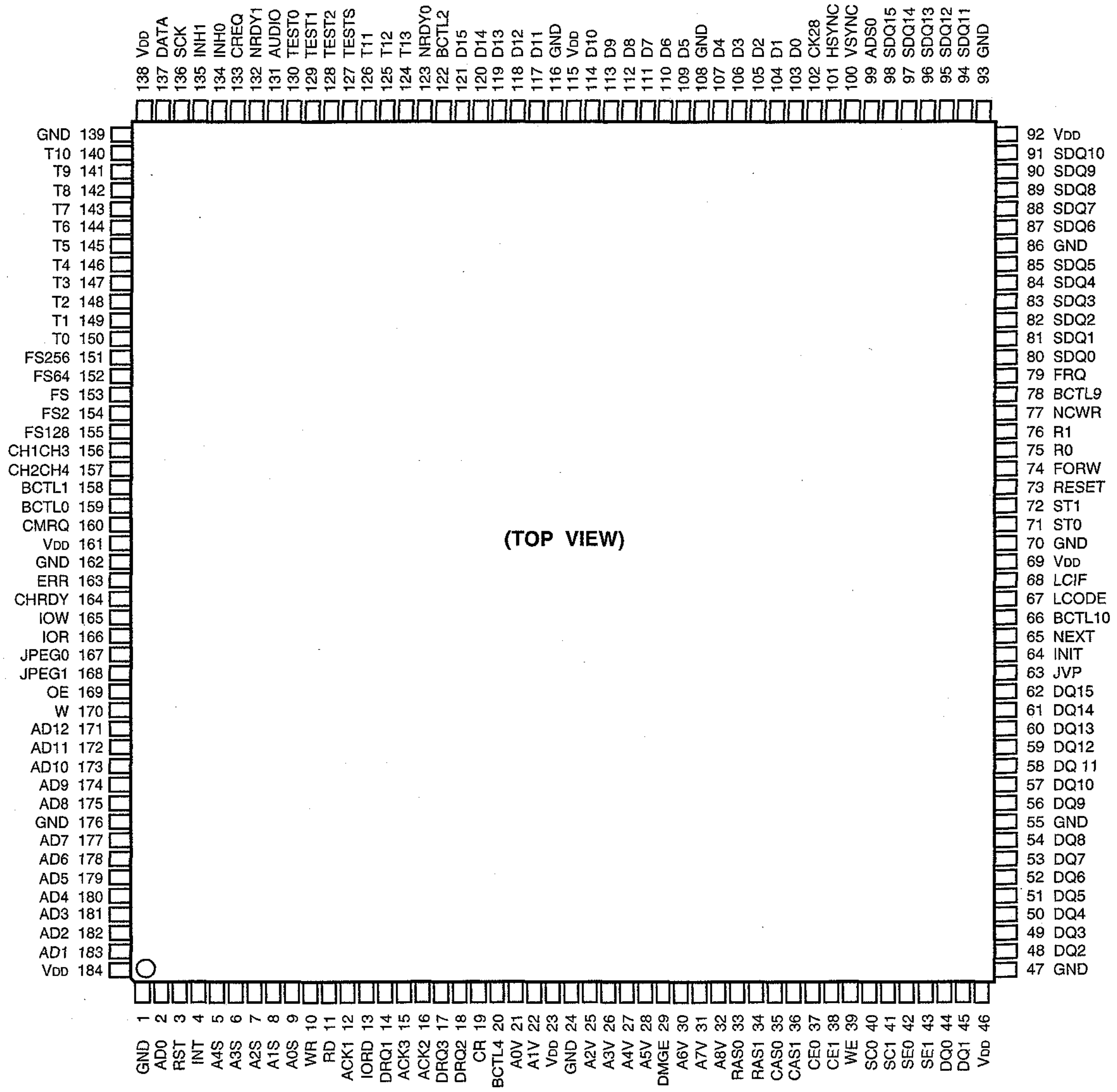
Pin	Name	I/O	Description
1	CLK	I	Clock Pulse input terminal.
2	JVP	I	JVP signal input terminal.
3	FORW	I	Forward signal input terminal.
4	N.C.	–	Non connection.
5	N.C.	–	Non connection.
6	N.C.	–	Non connection.
7	N.C.	–	Non connection.
8	N.C.	–	Non connection.
9	N.C.	–	Non connection.
10	GND	–	Ground terminal.
11	N.C.	–	Non connection.
12	N.C.	–	Non connection.
13	N.C.	–	Non connection.
14	N.C.	–	Non connection.
15	C	O	C signal output terminal.
16	B	O	B signal output terminal.
17	A	O	A signal output terminal.
18	GATE	O	Gate signal output terminal.
19	REC	O	REC signal output terminal.
20	Vcc	–	Power supply terminal.

4.2. IC19 on the JPEG/SCSI-1 Board is using the Logic Control IC YW18CV8AV004.
Description of this IC is as follows:


IOW 1
IOR 2
SA1 3
SA2 4
SA3 5
SA4 6
SA5 7
SA6 8
SA7 9
GND 10
(TOP VIEW)
20 Vcc
19 AUDIO
18 I/O
17 I/O
16 IOW
15 IOR
14 I/O
13 I/O
12 SA9
11 SA8

Pin	Name	I/O	Description
1	IOW	I	IOW signal input terminal.
2	IOR	I	IOR signal input terminal.
3	SA1	I	Address signal input terminals. (9-Bit)
4	SA2	I	
5	SA3	I	
6	SA4	I	
7	SA5	I	
8	SA6	I	
9	SA7	I	
10	GND	–	Ground terminal.
11	SA8	I	Address signal input terminals. (9-Bit)
12	SA9	I	
13	I/O	I/O	Control signal input/output terminals.
14	I/O	I/O	
15	IOR	O	IOR signal output terminal.
16	IOW	O	IOW signal output terminal.
17	I/O	I/O	Control signal input/output terminals.
18	I/O	I/O	
19	AUDIO	I	AUDIO signal input terminal.
20	Vcc	–	Power supply terminal.

4.3. IC19 on the JPEG/SCSI-1 Board and IC217 on the JPEG/SCSI-2 Board are using the CMOS Gate Array Logic IC YWPD65654225.


138 VDD
137 DATA
136 SCK
135 INH1
134 INH0
133 CREQ
132 NRDY1
131 AUDIO
130 TEST0
129 TEST1
128 TEST2
127 TESTS
126 T11
125 T12
124 T13
123 NRDY0
122 BCTL2
121 D15
120 D14
119 D13
118 D12
117 D11
116 GND
115 VDD
114 D10
113 D9
112 D8
111 D7
110 D6
109 D5
108 GND
107 D4
106 D3
105 D2
104 D1
103 D0
102 CK28
101 HSYNC
100 VSYNC
99 ADS0
98 SDQ15
97 SDQ14
96 SDQ13
95 SDQ12
94 SDQ11
93 GND
GND 139
T10 140
T9 141
T8 142
T7 143
T6 144
T5 145
T4 146
T3 147
T2 148
T1 149
T0 150
FS256 151
FS64 152
FS 153
FS2 154
FS128 155
CH1CH3 156
CH2CH4 157
BCTL1 158
BCTL0 159
CMRQ 160
VDD 161
GND 162
ERR 163
CHRDY 164
IOW 165
IOR 166
JPEG0 167
JPEG1 168
OE 169
W 170
AD12 171
AD11 172
AD10 173
AD9 174
AD8 175
GND 176
AD7 177
AD6 178
AD5 179
AD4 180
AD3 181
AD2 182
AD1 183
VDD 184
(TOP VIEW)
92 VDD
91 SDQ10
90 SDQ9
89 SDQ8
88 SDQ7
87 SDQ6
86 GND
85 SDQ5
84 SDQ4
83 SDQ3
82 SDQ2
81 SDQ1
80 SDQ0
79 FRQ
78 BCTL9
77 NCWR
76 R1
75 R0
74 FORW
73 RESET
72 ST1
71 ST0
70 GND
69 VDD
68 LCIF
67 LCODE
66 BCTL10
65 NEXT
64 INIT
63 JVP
62 DQ15
61 DQ14
60 DQ13
59 DQ12
58 DQ 11
57 DQ10
56 DQ9
55 GND
54 DQ8
53 DQ7
52 DQ6
51 DQ5
50 DQ4
49 DQ3
48 DQ2
47 GND
1 GND
2 AD0
3 RST
4 INT
5 A4S
6 A3S
7 A2S
8 A1S
9 A0S
10 WR
11 RD
12 ACK1
13 IORD
14 DRQ1
15 ACK3
16 ACK2
17 DRQ3
18 DRQ2
19 CR
20 BCTL4
21 A0V
22 A1V
23 VDD
24 GND
25 A2V
26 A3V
27 A4V
28 A5V
29 DMGE
30 A6V
31 A7V
32 A8V
33 RAS0
34 RAS1
35 CAS0
36 CAS1
37 CE0
38 CE1
39 WE
40 SC0
41 SC1
42 SE0
43 SE1
44 DQ0
45 DQ1
46 VDD

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	AD0	O	AD signal output terminals. (13-CH)
3	RST	I	Reset Pulse input terminal.
4	INT	I	INT signal input terminal.
5	A4S	O	A4S signal output terminal.
6	A3S	O	A3S signal output terminal.
7	A2S	O	A2S signal output terminal.
8	A1S	O	A1S signal output terminal.
9	A0S	O	A0S signal output terminal.
10	WR	O	Write signal output terminal.
11	RD	O	Read signal output terminal.
12	ACK1	O	ACK1 signal output terminal.
13	IORD	O	IORD signal output terminal.

Pin	Name	I/O	Description
14	DRQ1	I	DRQ1 signal input terminal.
15	ACK3	O	ACK3 signal output terminal.
16	ACK2	O	ACK2 signal output terminal.
17	DRQ3	I	DRQ3 signal input terminal.
18	DRQ2	I	DRQ2 signal input terminal.
19	CR	O	CR signal output terminal.
20	BCTL4	O	BCTL4 signal output terminals.
21	A0V	O	A0V signal output terminal.
22	A1V	O	A1V signal output terminal.
23	VDD	–	Power supply terminal.
24	GND	–	Ground terminal.
25	A2V	O	A2V signal output terminal.
26	A3V	O	A3V signal output terminal.

Pin	Name	I/O	Description
27	A4V	O	A4V signal output terminal.
28	A5V	O	A5V signal output terminal.
29	DMGE	O	DMGE signal input terminal.
30	A6V	O	A6V signal output terminal.
31	A7V	O	A7V signal output terminal.
32	A8V	O	A8V signal output terminal.
33	RAS0	O	Row Address Strobe signal output terminal.
34	RAS1	O	
35	CAS0	O	Column Address Strobe signal output terminal.
36	CAS1	O	
37	OE0	O	Output Enable signal output terminal.
38	OE1	O	
39	WE	O	Write Enable signal output terminal.
40	SC0	O	SC0 signal output terminal.
41	SC1	O	SC1 signal output terminal.
42	SE0	O	SE0 signal output terminal.
43	SE1	O	SE1 signal output terminal.
44	DQ0	I/O	DQ Data input/output terminals. (16-Bit)
45	DQ1	I/O	
46	VDD	–	Power supply terminal.
47	GND	–	Ground terminal.
48	DQ2	I/O	DQ Data input/output terminals. (16-Bit)
49	DQ3	I/O	
50	DQ4	I/O	
51	DQ5	I/O	
52	DQ6	I/O	
53	DQ7	I/O	
54	DQ8	I/O	
55	GND	–	Ground terminal.
56	DQ9	I/O	DQ Data input/output terminals. (16-Bit)
57	DQ10	I/O	
58	DQ11	I/O	
59	DQ12	I/O	
60	DQ13	I/O	
61	DQ14	I/O	
62	DQ15	I/O	
63	JVP	O	JVP signal output terminal.
64	INIT	O	INIT signal output terminal.
65	NEXT	O	NEXT signal output terminal.
66	BCTL10	O	BCTL10 signal output terminal.
67	LCODE	I/O	LCODE signal output terminal.
68	LCIF	I	LCIF signal input terminal.
69	VDD	–	Power supply terminal.
70	GND	–	Ground terminal.
71	ST0	I	ST0 signal input terminal.
72	ST1	I	ST1 signal input terminal.

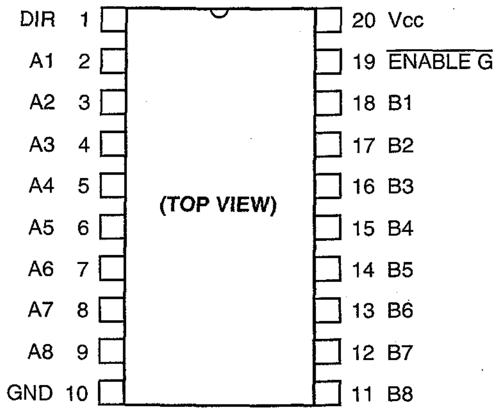
Pin	Name	I/O	Description
73	RESET	O	Reset Pulse output terminal.
74	FORW	O	FORW signal output terminal.
75	R0	O	R0 signal output terminal.
76	R1	O	R1 signal output terminal.
77	NCWR	O	NCWR signal output terminal.
78	BCTL9	O	BCTL9 signal output terminal.
79	FRQ	I	FRQ signal input terminals.
80	SDQ0	I/O	SDQ Data input/output terminals. (16-Bit)
81	SDQ1	I/O	
82	SDQ2	I/O	
83	SDQ3	I/O	
84	SDQ4	I/O	
85	SDQ5	I/O	
86	GND	–	Ground terminal.
87	SDQ6	I/O	SDQ Data input/output terminals. (16-Bit)
88	SDQ7	I/O	
89	SDQ8	I/O	
90	SDQ9	I/O	
91	SDQ10	I/O	
92	VDD	–	Power supply terminal.
93	GND	–	Ground terminal.
94	SDQ11	I/O	SDQ Data input/output terminals. (16-Bit)
95	SDQ12	I/O	
96	SDQ13	I/O	
97	SDQ14	I/O	
98	SDQ15	I/O	
99	ADS0	I	ADS0 signal input terminal.
100	VSYNC	I	Vertical Sync signal input terminal.
101	HSYNC	I	Horizontal Sync signal input terminal.
102	CK28	I	Clock Pulse input terminal.
103	D0	I/O	Data input/output terminals. (16-Bit)
104	D1	I/O	
105	D2	I/O	
106	D3	I/O	
107	D4	I/O	
108	GND	–	Ground terminal.
109	D5	I/O	Data input/output terminals. (16-Bit)
110	D6	I/O	
111	D7	I/O	
112	D8	I/O	
113	D9	I/O	
114	D10	I/O	
115	VDD	–	Power supply terminal.
116	GND	–	Ground terminal.
117	D11	I/O	Data input/output terminals. (16-Bit)
118	D12	I/O	

Pin	Name	I/O	Description
119	D13	I/O	Data input/output terminals. (16-Bit)
120	D14	I/O	
121	D15	I/O	
122	BCTL2	O	BCTL2 signal output terminal.
123	NRDY0	I	NRDY0 signal input terminal.
124	T13	I	T Data input terminals. (14-Bit)
125	T12	I	
126	T11	I	
127	TESTS	I	Test signal input terminals.
128	TEST2	I	
129	TEST1	I	
130	TEST0	I	
131	AUDIO	I	AUDIO signal input terminal.
132	NRDY1	I	NRDY1 signal input terminal.
133	CREQ	I/O	CREQ signal input/output terminal.
134	INH0	O	Inhibit signal output terminals.
135	INH1	O	
136	SCK	I	Serial Clock Pulse input terminal.
137	DATA	I	Serial Data input terminal.
138	VDD	–	Power supply terminal.
139	GND	–	Ground terminal.
140	T10	I	T Data input terminals. (14-Bit)
141	T9	I	
142	T8	I	
143	T7	I	
144	T6	I	
145	T5	I	
146	T4	I	
147	T3	I	
148	T2	I	
149	T1	I	
150	T0	I	
151	FS256	I	FS256 signal input terminal.
152	FS64	O	FS64 signal output terminal.
153	FS	O	FS signal output terminal.
154	FS2	O	FS32 signal output terminal.
155	FS128	O	FS128 signal output terminal.
156	CH1CH3	O	CH1CH3 signal output terminal.
157	CH2CH4	O	CH2CH4 signal output terminal.
158	BCTL1	O	BCTL1 signal output terminal.
159	BCTL0	O	BCTL0 signal output terminal.
160	CMRQ	O	CMRQ signal output terminal.
161	VDD	–	Power supply terminal.
162	GND	–	Ground terminal.
163	ERR	O	ERR signal output terminal.
164	CHRDY	O	CHRDY signal output terminal.

Pin	Name	I/O	Description
165	IOW	I	IOW signal input terminal.
166	IOR	I	IOR signal input terminal.
167	JPEG0	I	JPEG0 signal input terminal.
168	JPEG1	I	JPEG1 signal input terminal.
169	OE	O	OE signal output terminal.
170	W	O	W signal output terminal.
171	AD12	O	
172	AD11	O	AD signal output terminals.
173	AD10	O	
174	AD9	O	
175	AD8	O	
176	GND	–	Ground terminal.
177	AD7	O	AD signal output terminals. (13-CH)
178	AD6	O	
179	AD5	O	
180	AD4	O	
181	AD3	O	
182	AD2	O	
183	AD1	O	
184	VDD	–	Power supply terminal.

4.4. IC35, IC37 and IC38 on the JPEG 1 Board, IC223-IC225 on the JPEG/SCSI-2 Board, IC99-IC102 on the CG Board and IC35 on the SCSI Board are using the Octal 3-State Bus Transceivers IC YWMC74AC245 M.

Description of this IC is as follows:

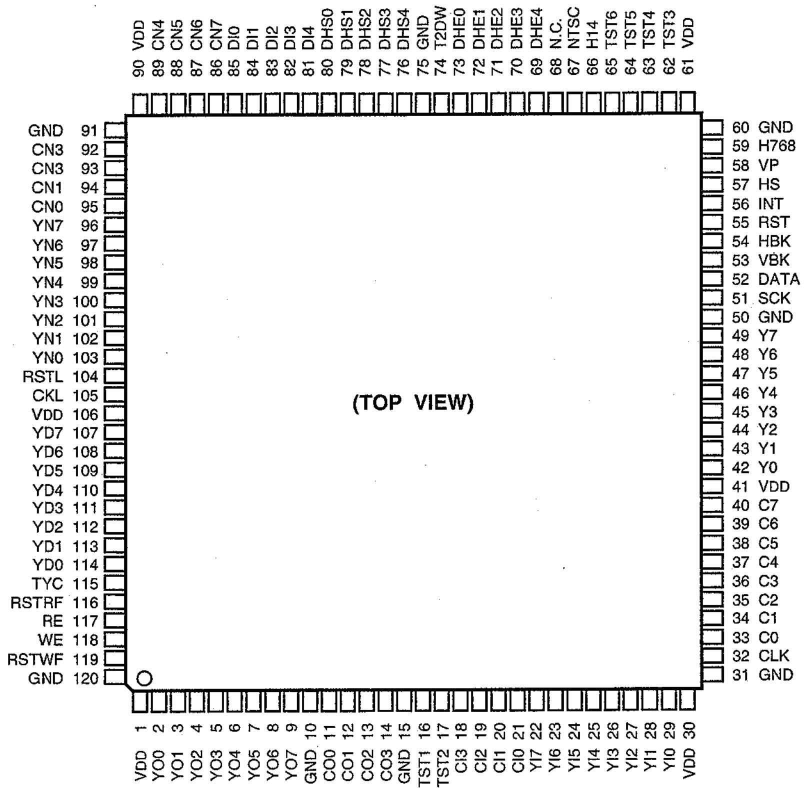


Truth Table

INPUTS		FUNCTION
DIR	$\overline{\text{ENABLE G}}$	
H	L	A ⟶ B
L	L	B ⟶ A
*	H	A OFF B

* : Don't care.

4.5. IC27 on the JPEG/SCSI-1 Board is using the High Pass Filter CMOS Gate Array Logic IC YWPD65640115.
Description of this IC is as follows:


90 VDD
89 CN4
88 CN5
87 CN6
86 CN7
85 DI0
84 DI1
83 DI2
82 DI3
81 DI4
80 DHS0
79 DHS1
78 DHS2
77 DHS3
76 DHS4
75 GND
74 T2DW
73 DHE0
72 DHE1
71 DHE2
70 DHE3
69 DHE4
68 N.C.
67 NTSC
66 H14
65 TST6
64 TST5
63 TST4
62 TST3
61 VDD
GND 91
CN3 92
CN3 93
CN1 94
CN0 95
YN7 96
YN6 97
YN5 98
YN4 99
YN3 100
YN2 101
YN1 102
YN0 103
RSTL 104
CKL 105
VDD 106
YD7 107
YD6 108
YD5 109
YD4 110
YD3 111
YD2 112
YD1 113
YD0 114
TYC 115
RSTRF 116
RE 117
WE 118
RSTWF 119
GND 120
(TOP VIEW)
60 GND
59 H768
58 VP
57 HS
56 INT
55 RST
54 HBK
53 VBK
52 DATA
51 SCK
50 GND
49 Y7
48 Y6
47 Y5
46 Y4
45 Y3
44 Y2
43 Y1
42 Y0
41 VDD
40 C7
39 C6
38 C5
37 C4
36 C3
35 C2
34 C1
33 C0
32 CLK
31 GND
1 VDD
2 YO0
3 YO1
4 YO2
5 YO3
6 YO4
7 YO5
8 YO6
9 YO7
10 GND
11 CO0
12 CO1
13 CO2
14 CO3
15 GND
16 TST1
17 TST2
18 CI3
19 CI2
20 CI1
21 CI0
22 YI7
23 YI6
24 YI5
25 YI4
26 YI3
27 YI2
28 YI1
29 YI0
30 VDD

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	YO0	O	Y(Luminance) signal output terminals. (8-Bit)
3	YO1	O	
4	YO2	O	
5	YO3	O	
6	YO4	O	
7	YO5	O	
8	YO6	O	
9	YO7	O	
10	GND	–	Ground terminal.
11	CO0	O	C(Chroma) signal output terminals. (4-Bit)
12	CO1	O	
13	CO2	O	
14	CO3	O	
15	GND	–	Ground terminal.
16	TST1	I	Test signal input terminals.
17	TST2	I	
18	CI3	I	C(Chroma) signal input terminals. (4-Bit)
19	CI2	I	
20	CI1	I	

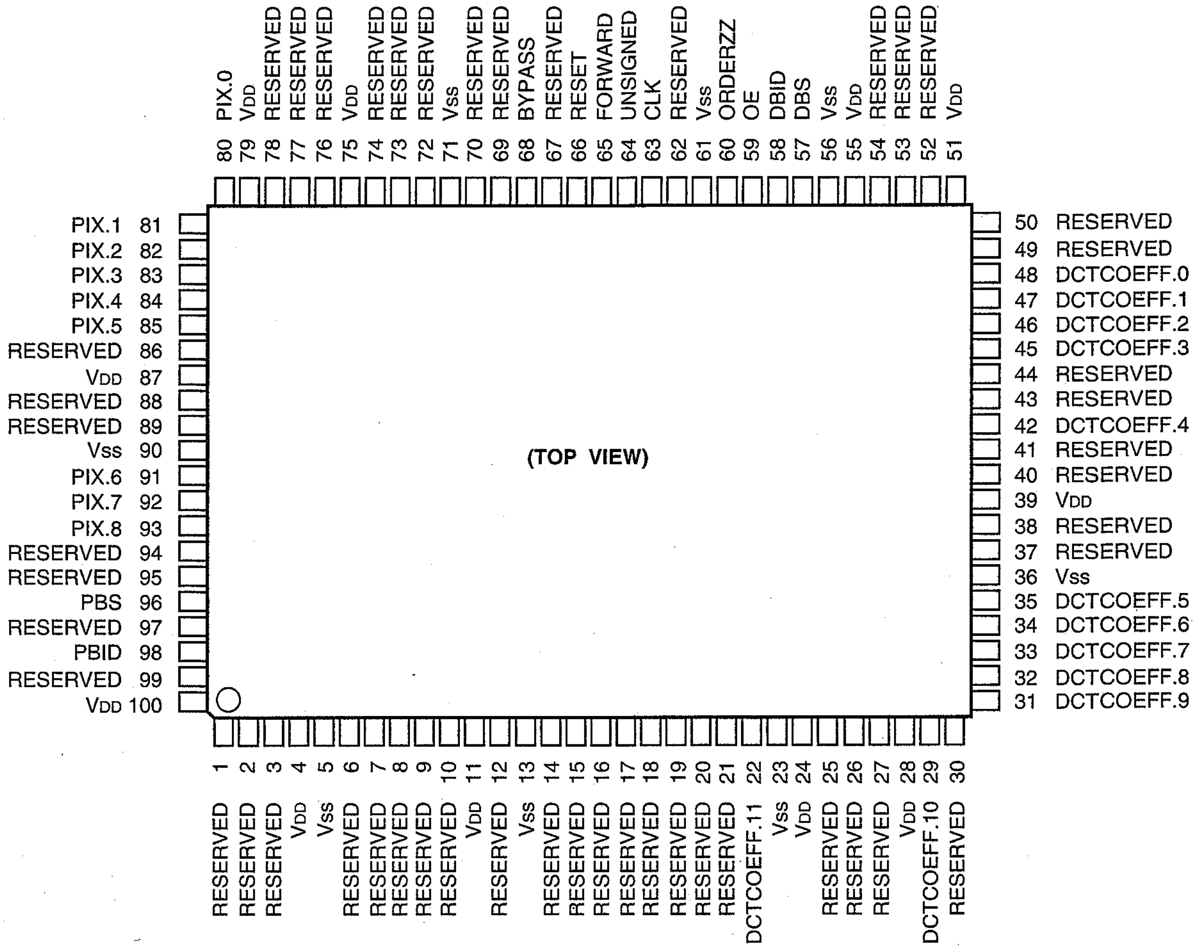
Pin	Name	I/O	Description
21	CI0	I	C(Chroma) signal input terminals.(4-Bit)
22	YI7	I	Y(Luminance) signal input terminals. (8-Bit)
23	YI6	I	
24	YI5	I	
25	YI4	I	
26	YI3	I	
27	YI2	I	
28	YI1	I	
29	YI0	I	
30	VDD	–	Power supply terminal.
31	GND	–	Ground terminal.
32	CLK	I	Clock Pulse input terminal.
33	C0	O	C(Chroma) signal output terminals. (8-Bit)
34	C1	O	
35	C2	O	
36	C3	O	
37	C4	O	
38	C5	O	
39	C6	O	
40	C7	O	

Pin	Name	I/O	Description
41	VDD	–	Power supply terminal.
42	Y0	O	Y(Luminance) signal output terminals. (8-Bit)
43	Y1	O	
44	Y2	O	
45	Y3	O	
46	Y4	O	
47	Y5	O	
48	Y6	O	
49	Y7	O	
50	GND	–	Ground terminal.
51	SCK	O	Serial Clock Pulse output terminal.
52	DATA	O	Serial Data output terminal.
53	VBK	O	VBK signal output terminal.
54	HBK	O	HBK signal output terminal.
55	RST	I	Reset Pulse input terminal.
56	INT	I	Inhibit signal input terminal.
57	HS	I	HS signal input terminal.
58	VP	I	VP signal input terminal.
59	H768	I	H768 signal input terminal.
60	GND	–	Ground terminal.
61	VDD	–	Power supply terminal.
62	TST3	I	Test signal input terminals.
63	TST4	I	
64	TST5	I	
65	TST6	I	
66	H14	I	H14 signal input terminal.
67	NTSC	I	NTSC Selection signal input terminal.
68	N.C.	–	Non connection.
69	DHE4	I	DHE signal input terminals. (5-Bit)
70	DHE3	I	
71	DHE2	I	
72	DHE1	I	
73	DHE0	I	
74	T2DW	I	T2DW signal input terminal.
75	GND	–	Ground terminal.
76	DHS4	I	DHS signal input terminals. (5-Bit)
77	DHS3	I	
78	DHS2	I	
79	DHS1	I	
80	DHS0	I	
81	DI4	I	DI signal input terminals. (5-Bit)
82	DI3	I	
83	DI2	I	
84	DI1	I	
85	DI0	I	

Pin	Name	I/O	Description
86	CN7	I	CN signal input terminals. (8-Bit)
87	CN6	I	
88	CN5	I	
89	CN4	I	
90	VDD	–	Power supply terminal.
91	GND	–	Ground terminal.
92	CN3	I	CN signal input terminals. (8-Bit)
93	CN2	I	
94	CN1	I	
95	CN0	I	
96	YN7	I	YN signal input terminals. (8-Bit)
97	YN6	I	
98	YN5	I	
99	YN4	I	
100	YN3	I	
101	YN2	I	
102	YN1	I	
103	YN0	I	
104	RSTL	O	Reset Pulse output terminal.
105	CKL	O	Clock Pulse output terminal.
106	VDD	–	Power supply terminal.
107	YD7	I	YD signal input terminals. (8-Bit)
108	YD6	I	
109	YD5	I	
110	YD4	I	
111	YD3	I	
112	YD2	I	
113	YD1	I	
114	YD0	I	
115	TYC	I	TYC signal input terminal.
116	RSTRF	O	Reset Pulse output terminal.
117	RE	O	Read Enable output terminal.
118	WE	O	Write Enable output terminal.
119	RSTWF	O	Reset Pulse output terminal.
120	GND	–	Ground terminal.

4.6. IC8 on the JPEG/SCSI-1 Board and IC207 on the JPEG/SCSI-2 Board are using the DCT (Discrete Cosine Transform) Processor IC YWL64735.

Description of this IC is as follows:


80 PIX.0
79 VDD
78 RESERVED
77 RESERVED
76 RESERVED
75 VDD
74 RESERVED
73 RESERVED
72 RESERVED
71 Vss
70 RESERVED
69 RESERVED
68 BYPASS
67 RESERVED
66 RESET
65 FORWARD
64 UNSIGNED
63 CLK
62 RESERVED
61 Vss
60 ORDERZZ
59 OE
58 DBID
57 DBS
56 Vss
55 VDD
54 RESERVED
53 RESERVED
52 RESERVED
51 VDD
PIX.1 81
PIX.2 82
PIX.3 83
PIX.4 84
PIX.5 85
RESERVED 86
VDD 87
RESERVED 88
RESERVED 89
Vss 90
PIX.6 91
PIX.7 92
PIX.8 93
RESERVED 94
RESERVED 95
PBS 96
RESERVED 97
PBID 98
RESERVED 99
VDD 100
(TOP VIEW)
50 RESERVED
49 RESERVED
48 DCTCOEFF.0
47 DCTCOEFF.1
46 DCTCOEFF.2
45 DCTCOEFF.3
44 RESERVED
43 RESERVED
42 DCTCOEFF.4
41 RESERVED
40 RESERVED
39 VDD
38 RESERVED
37 RESERVED
36 Vss
35 DCTCOEFF.5
34 DCTCOEFF.6
33 DCTCOEFF.7
32 DCTCOEFF.8
31 DCTCOEFF.9
1 RESERVED
2 RESERVED
3 RESERVED
4 VDD
5 Vss
6 RESERVED
7 RESERVED
8 RESERVED
9 RESERVED
10 RESERVED
11 VDD
12 RESERVED
13 Vss
14 RESERVED
15 RESERVED
16 RESERVED
17 RESERVED
18 RESERVED
19 RESERVED
20 RESERVED
21 RESERVED
22 DCTCOEFF.11
23 Vss
24 VDD
25 RESERVED
26 RESERVED
27 RESERVED
28 VDD
29 DCTCOEFF.10
30 RESERVED

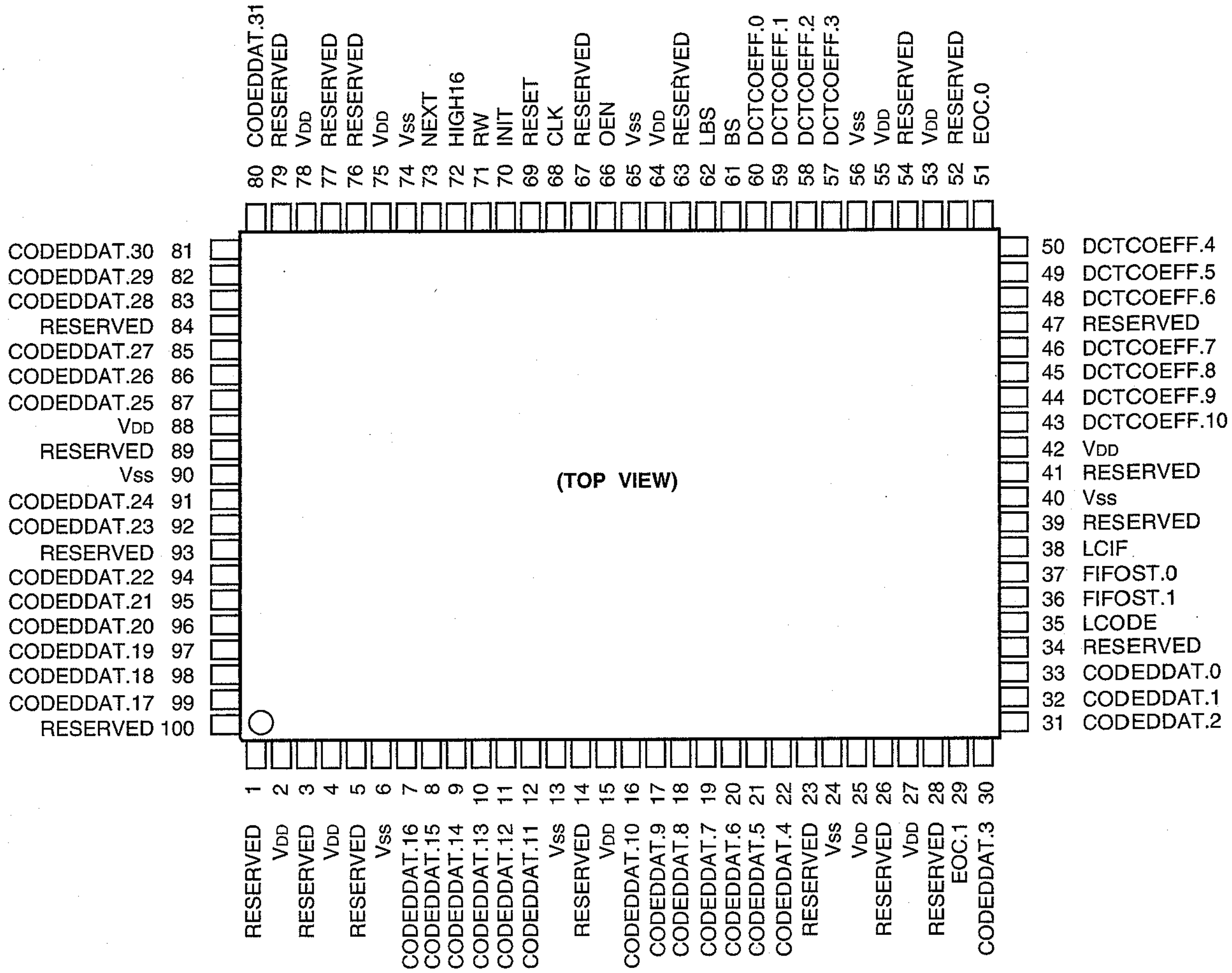
Pin	Name	I/O	Description
1	RESERVED	–	Not used.
2	RESERVED	–	Not used.
3	RESERVED	–	Not used.
4	VDD	–	Power supply terminal.
5	Vss	–	Ground terminal.
6	RESERVED	–	Not used.
7	RESERVED	–	Not used.
8	RESERVED	–	Not used.
9	RESERVED	–	Not used.
10	RESERVED	–	Not used.
11	VDD	–	Power supply terminal.
12	RESERVED	–	Not used.
13	Vss	–	Ground terminal.
14	RESERVED	–	Not used.
15	RESERVED	–	Not used.

Pin	Name	I/O	Description
16	RESERVED	–	Not used.
17	RESERVED	–	Not used.
18	RESERVED	–	Not used.
19	RESERVED	–	Not used.
20	RESERVED	–	Not used.
21	RESERVED	–	Not used.
22	DCTCOEFF.11	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
23	Vss	–	Ground terminal.
24	VDD	–	Power supply terminal.
25	RESERVED	–	Not used.
26	RESERVED	–	Not used.
27	RESERVED	–	Not used.
28	VDD	–	Power supply terminal.
29	DCTCOEFF.10	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)

Pin	Name	I/O	Description
30	RESERVED	–	Not used.
31	DCTCOEFF.9	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
32	DCTCOEFF.8	I/O	
33	DCTCOEFF.7	I/O	
34	DCTCOEFF.6	I/O	
35	DCTCOEFF.5	I/O	
36	Vss	–	Ground terminal.
37	RESERVED	–	Not used.
38	RESERVED	–	Not used.
39	VDD	–	Power supply terminal.
40	RESERVED	–	Not used.
41	RESERVED	–	Not used.
42	DCTCOEFF.4	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
43	RESERVED	–	Not used.
44	RESERVED	–	Not used.
45	DCTCOEFF.3	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
46	DCTCOEFF.2	I/O	
47	DCTCOEFF.1	I/O	
48	DCTCOEFF.0	I/O	
49	RESERVED	–	Not used.
50	RESERVED	–	Not used.
51	VDD	–	Power supply terminal.
52	RESERVED	–	Not used.
53	RESERVED	–	Not used.
54	RESERVED	–	Not used.
55	VDD	–	Power supply terminal.
56	Vss	–	Ground terminal.
57	DBS	I/O	DCTCOEFF Block Start signal input terminal.
58	DBID	I/O	DCTCOEFF Block ID signal input terminal.
59	OE	I	Output Enable signal input terminal.
60	ORDERZZ	I	DCT Block Order Control signal input terminal.
61	Vss	–	Ground terminal.
62	RESERVED	–	Not used.
63	CLK	I	System Clock Pulse input terminal.
64	UNSIGNED	I	Pixel Data Format Control signal input terminal.
65	FORWARD	I	Direction Control signal input terminal.
66	RESET	I	Reset Pulse input terminal.
67	RESERVED	–	Not used.
68	BYPASS	I	Bypass Control signal input terminal.

Pin	Name	I/O	Description
69	RESERVED	–	Not used.
70	RESERVED	–	Not used.
71	Vss	–	Ground terminal.
72	RESERVED	–	Not used.
73	RESERVED	–	Not used.
74	RESERVED	–	Not used.
75	VDD	–	Power supply terminal.
76	RESERVED	–	Not used.
77	RESERVED	–	Not used.
78	RESERVED	–	Not used.
79	VDD	–	Power supply terminal.
80	PIX.0	I/O	Pixel Data Bus terminals. (9-Bit)
81	PIX.1	I/O	
82	PIX.2	I/O	
83	PIX.3	I/O	
84	PIX.4	I/O	
85	PIX.5	I/O	
86	RESERVED	–	Not used.
87	VDD	–	Power supply terminal.
88	RESERVED	–	Not used.
89	RESERVED	–	Not used.
90	Vss	–	Ground terminal.
91	PIX.6	I/O	Pixel Data Bus terminals. (9-Bit)
92	PIX.7	I/O	
93	PIX.8	I/O	
94	RESERVED	–	Not used.
95	RESERVED	–	Not used.
96	PBS	I/O	Pixel Block Start signal input/ output terminal.
97	RESERVED	–	Not used.
98	PBID	I/O	Pixel Block ID signal input/ output terminal.
99	RESERVED	–	Not used.
100	VDD	–	Power supply terminal.

4.7. IC5 on the JPEG/SCSI-1 Board and IC205 on the JPEG/SCSI-2 Board are using the JPEG Coder IC YWL64745. Description of this IC is as follows:


80 CODEDDAT.31
79 RESERVED
78 VDD
77 RESERVED
76 RESERVED
75 VDD
74 Vss
73 NEXT
72 HIGH16
71 RW
70 INIT
69 RESET
68 CLK
67 RESERVED
66 OEN
65 Vss
64 VDD
63 RESERVED
62 LBS
61 BS
60 DCTCOEFF.0
59 DCTCOEFF.1
58 DCTCOEFF.2
57 DCTCOEFF.3
56 Vss
55 VDD
54 RESERVED
53 VDD
52 RESERVED
51 EOC.0
CODEDDAT.30 81
CODEDDAT.29 82
CODEDDAT.28 83
RESERVED 84
CODEDDAT.27 85
CODEDDAT.26 86
CODEDDAT.25 87
VDD 88
RESERVED 89
Vss 90
CODEDDAT.24 91
CODEDDAT.23 92
RESERVED 93
CODEDDAT.22 94
CODEDDAT.21 95
CODEDDAT.20 96
CODEDDAT.19 97
CODEDDAT.18 98
CODEDDAT.17 99
RESERVED 100
(TOP VIEW)
50 DCTCOEFF.4
49 DCTCOEFF.5
48 DCTCOEFF.6
47 RESERVED
46 DCTCOEFF.7
45 DCTCOEFF.8
44 DCTCOEFF.9
43 DCTCOEFF.10
42 VDD
41 RESERVED
40 Vss
39 RESERVED
38 LCIF
37 FIFOST.0
36 FIFOST.1
35 LCODE
34 RESERVED
33 CODEDDAT.0
32 CODEDDAT.1
31 CODEDDAT.2
1 RESERVED
2 VDD
3 RESERVED
4 VDD
5 RESERVED
6 Vss
7 CODEDDAT.16
8 CODEDDAT.15
9 CODEDDAT.14
10 CODEDDAT.13
11 CODEDDAT.12
12 CODEDDAT.11
13 Vss
14 RESERVED
15 VDD
16 CODEDDAT.10
17 CODEDDAT.9
18 CODEDDAT.8
19 CODEDDAT.7
20 CODEDDAT.6
21 CODEDDAT.5
22 CODEDDAT.4
23 RESERVED
24 Vss
25 VDD
26 RESERVED
27 VDD
28 RESERVED
29 EOC.1
30 CODEDDAT.3

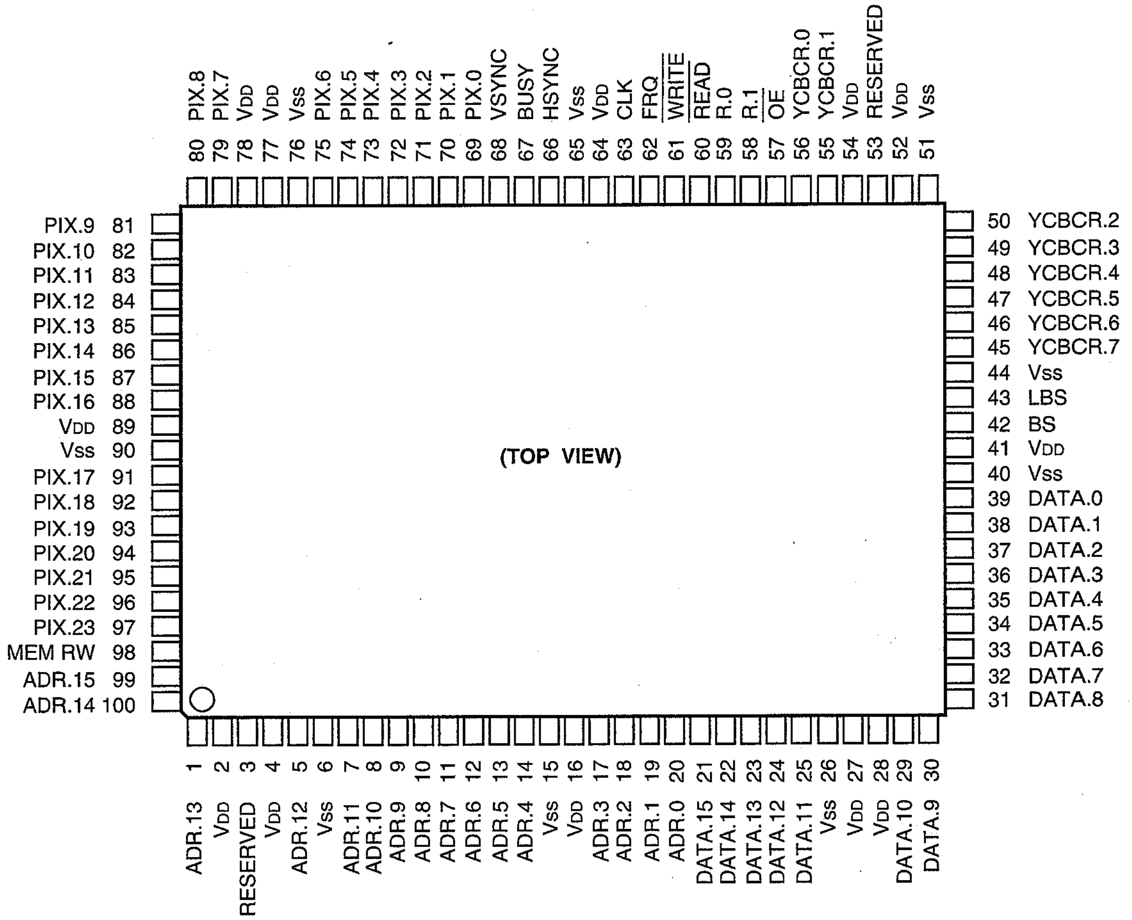
Pin	Name	I/O	Description
1	RESERVED	–	Not used.
2	VDD	–	Power supply terminal.
3	RESERVED	–	Not used.
4	VDD	–	Power supply terminal.
5	RESERVED	–	Not used.
6	Vss	–	Ground terminal.
7	CODEDDAT.16	I/O	Coded Data Bus terminals. (32-Bit)
8	CODEDDAT.15	I/O	
9	CODEDDAT.14	I/O	
10	CODEDDAT.13	I/O	
11	CODEDDAT.12	I/O	
12	CODEDDAT.11	I/O	
13	Vss	–	Ground terminal.
14	RESERVED	–	Not used.
15	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
16	CODEDDAT.10	I/O	Coded Data Bus terminals. (32-Bit)
17	CODEDDAT.9	I/O	
18	CODEDDAT.8	I/O	
19	CODEDDAT.7	I/O	
20	CODEDDAT.6	I/O	
21	CODEDDAT.5	I/O	
22	CODEDDAT.4	I/O	
23	RESERVED	–	Not used.
24	Vss	–	Ground terminal.
25	VDD	–	Power supply terminal.
26	RESERVED	–	Not used.
27	VDD	–	Power supply terminal.
28	RESERVED	–	Not used.
29	EOC.1	O	End of Code signal output terminals.

Pin	Name	I/O	Description
30	CODEDDAT.3	I/O	Coded Data Bus terminals. (32-Bit)
31	CODEDDAT.2	I/O	
32	CODEDDAT.1	I/O	
33	CODEDDAT.0	I/O	
34	RESERVED	–	Not used.
35	LCODE	I/O	Last Code signal input/output terminal.
36	FIFOST.1	O	FIFO Status Indicator signal output terminals.
37	FIFOST.0	O	
38	LCIF	O	Last Code in FIFO signal output terminal.
39	RESERVED	–	Not used.
40	Vss	–	Ground terminal.
41	RESERVED	–	Not used.
42	VDD	–	Power supply terminal.
43	DCTCOEFF.10	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
44	DCTCOEFF.9	I/O	
45	DCTOCEFF.8	I/O	
46	DCTCOEFF.7	I/O	
47	RESERVED	–	Not used.
48	DCTCOEFF.6	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
49	DCTCOEFF.5	I/O	
50	DCTCOEFF.4	I/O	
51	EOC.0	O	End of Code signal output terminal.
52	RESERVED	–	Not used.
53	VDD	–	Power supply terminal.
54	RESERVED	–	Not used.
55	VDD	–	Power supply terminal.
56	Vss	–	Ground terminal.
57	DCTCOEFF.3	I/O	DCT Coefficient input/output Bus terminals. (12-BIT)
58	DCTCOEFF.2	I/O	
59	DCTCOEFF.1	I/O	
60	DCTCOEFF.0	I/O	
61	BS	I/O	Block Start signal input/output terminal.
62	LBS	I/O	Last Block Strobe signal input/ output terminal.
63	RESERVED	–	Not used.
64	VDD	–	Power supply terminal.
65	Vss	–	Ground terminal.
66	OEN	I	Output Enable signal input terminal.
67	RESERVED	–	Not used.
68	CLK	I	Clock Pulse input terminal.
69	RESET	I	Reset Pulse input terminal.
70	INIT	I	Initialization signal input terminal.
71	RW	I	Read/Write Selection signal input terminal.
72	HIGH16	I	Half-Word Location signal input terminal.
73	NEXT	I	Next Data Word signal input terminal.
74	Vss	–	Ground terminal.
75	VDD	–	Power supply terminal.
76	RESERVED	–	Not used.
77	RESERVED	–	Not used.
78	VDD	–	Power supply terminal.
79	RESERVED	–	Not used.
80	CODEDDAT.31	I/O	Coded Data Bus terminals. (32-Bit)
81	CODEDDAT.30	I/O	
82	CODEDDAT.29	I/O	
83	CODEDDAT.28	I/O	
84	RESERVED	–	Not used.
85	CODEDDAT.27	I/O	Coded Data Bus terminals. (32-Bit)
86	CODEDDAT.26	I/O	
87	CODEDDAT.25	I/O	
88	VDD	–	Power supply terminal.
89	RESERVED	–	Not used.
90	Vss	–	Ground terminal.
91	CODEDDAT.24	I/O	Coded Data Bus terminals. (32-Bit)
92	CODEDDAT.23	I/O	
93	RESERVED	–	Not used.
94	CODEDDAT.22	I/O	Coded Data Bus terminals. (32-Bit)
95	CODEDDAT.21	I/O	
96	CODEDDAT.20	I/O	
97	CODEDDAT.19	I/O	
98	CODEDDAT.18	I/O	
99	CODEDDAT.17	I/O	
100	RESERVED	–	Not used.

4.8. IC11 on the JPEG/SCSI-1 Board and IC209 on the JPEG/SCSI-2 Board are using the Color and Raster-Block Converter IC YWL64765.

Description of this IC is as follows:


PIX.8 80
PIX.7 79
VDD 78
VDD 77
Vss 76
PIX.6 75
PIX.5 74
PIX.4 73
PIX.3 72
PIX.2 71
PIX.1 70
PIX.0 69
VSYNC 68
BUSY 67
HSYNC 66
Vss 65
VDD 64
CLK 63
FRQ 62
WRITE 61
READ 60
R.0 59
R.1 58
OE 57
YCBCR.0 56
YCBCR.1 55
VDD 54
RESERVED 53
VDD 52
Vss 51
50 YCBCR.2
49 YCBCR.3
48 YCBCR.4
47 YCBCR.5
46 YCBCR.6
45 YCBCR.7
44 Vss
43 LBS
42 BS
41 VDD
40 Vss
39 DATA.0
38 DATA.1
37 DATA.2
36 DATA.3
35 DATA.4
34 DATA.5
33 DATA.6
32 DATA.7
31 DATA.8
PIX.9 81
PIX.10 82
PIX.11 83
PIX.12 84
PIX.13 85
PIX.14 86
PIX.15 87
PIX.16 88
VDD 89
Vss 90
PIX.17 91
PIX.18 92
PIX.19 93
PIX.20 94
PIX.21 95
PIX.22 96
PIX.23 97
MEM RW 98
ADR.15 99
ADR.14 100
(TOP VIEW)
1 ADR.13
2 VDD
3 RESERVED
4 VDD
5 ADR.12
6 Vss
7 ADR.11
8 ADR.10
9 ADR.9
10 ADR.8
11 ADR.7
12 ADR.6
13 ADR.5
14 ADR.4
15 Vss
16 VDD
17 ADR.3
18 ADR.2
19 ADR.1
20 ADR.0
21 DATA.15
22 DATA.14
23 DATA.13
24 DATA.12
25 DATA.11
26 Vss
27 VDD
28 VDD
29 DATA.10
30 DATA.9

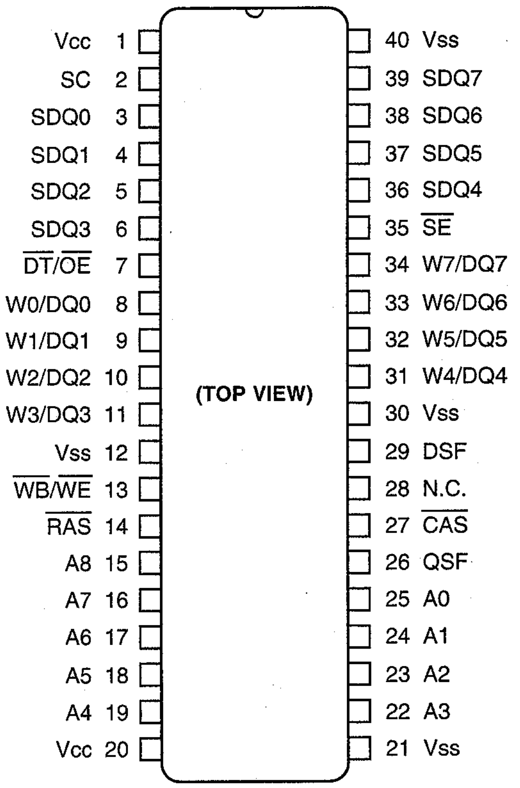
Pin	Name	I/O	Description
1	ADR.13	O	Memory Address Output Bus terminals. (16-Bit)
2	VDD	–	Power supply terminal.
3	RESERVED	–	Not used.
4	VDD	–	Power supply terminal.
5	ADR.12	O	Memory Address Output Bus terminals. (16-Bit)
6	Vss	–	Ground terminal.
7	ADR.11	O	Memory Address Output Bus terminals. (16-Bit)
8	ADR.10	O	
9	ADR.9	O	
10	ADR.8	O	
11	ADR.7	O	
12	ADR.6	O	
13	ADR.5	O	
14	ADR.4	O	
15	Vss	–	Ground terminal.
16	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
17	ADR.3	O	Memory Address Output Bus terminals. (16-Bit)
18	ADR.2	O	
19	ADR.1	O	
20	ADR.0	O	
21	DATA.15	I/O	Memory Data Input/Output Bus terminals. (16-Bit)
22	DATA.14	I/O	
23	DATA.13	I/O	
24	DATA.12	I/O	
25	DATA.11	I/O	
26	Vss	–	Ground terminal.
27	VDD	–	Power supply terminal.
28	VDD	–	Power supply terminal.
29	DATA.10	I/O	Memory Data Input/Output Bus terminals. (16-Bit)
30	DATA.9	I/O	
31	DATA.8	I/O	
32	DATA.7	I/O	
33	DATA.6	I/O	

Pin	Name	I/O	Description
34	DATA.5	I/O	Memory Data Input/Output Bus terminals. (16-Bit)
35	DATA.4	I/O	
36	DATA.3	I/O	
37	DATA.2	I/O	
38	DATA.1	I/O	
39	DATA.0	I/O	
40	Vss	–	Ground terminal.
41	VDD	–	Power supply terminal.
42	BS	I/O	Block Start signal input/output terminal.
43	LBS	I/O	Last Block Strobe signal input/ output terminal.
44	Vss	–	Ground terminal.
45	YCBCR.7	I/O	Converted Image Data Input/ Output Bus terminals. (8-Bit)
46	YCBCR.6	I/O	
47	YCBCR.5	I/O	
48	YCBCR.4	I/O	
49	YCBCR.3	I/O	
50	YCBCR.2	I/O	
51	Vss	–	Ground terminal.
52	VDD	–	Power supply terminal.
53	RESERVED	–	Not used.
54	VDD	–	Power supply terminal.
55	YCBCR.1	I/O	Converted Image Data Input/ Output Bus terminals. (8-Bit)
56	YCBCR.0	I/O	
57	$\overline{\text{OE}}$	I	Output Enable Control signal input terminal.
58	R.1	I	Register Address Control input terminals.
59	R.0	I	
60	$\overline{\text{READ}}$	I	Register Read Control signal input terminal.
61	$\overline{\text{WRITE}}$	I	Register Write Control signal input terminal.
62	FRQ	O	Freeze Request signal input terminal.
63	CLK	I	Clock Pulse input terminal.
64	VDD	–	Power supply terminal.
65	Vss	–	Ground terminal.
66	HSYNC	I/O	Horizontal Sync signal input/output terminal.
67	BUSY	O	Busy signal input terminal.
68	VSYNC	I/O	Vertical Sync signal input/output terminal.
69	PIX.0	I/O	Image Data Input/Output Bus terminals. (24-Bit)
70	PIX.1	I/O	
71	PIX.2	I/O	
72	PIX.3	I/O	
73	PIX.4	I/O	
74	PIX.5	I/O	

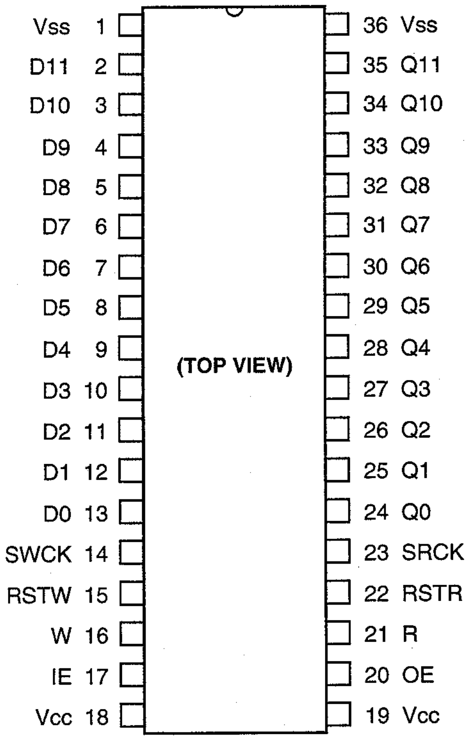
Pin	Name	I/O	Description
75	PIX.6	I/O	Image Data Input/Output Bus terminals. (24-Bit)
76	Vss	–	Ground terminal.
77	VDD	–	Power supply terminal.
78	VDD	–	Power supply terminal.
79	PIX.7	I/O	Image Data Input/Output Bus terminals. (24-Bit)
80	PIX.8	I/O	
81	PIX.9	I/O	
82	PIX.10	I/O	
83	PIX.11	I/O	
84	PIX.12	I/O	
85	PIX.13	I/O	
86	PIX.14	I/O	
87	PIX.15	I/O	
88	PIX.16	I/O	
89	VDD	–	Power supply terminal.
90	Vss	–	Ground terminal.
91	PIX.17	I/O	Image Data Input/Output Bus terminals. (24-Bit)
92	PIX.18	I/O	
93	PIX.19	I/O	
94	PIX.20	I/O	
95	PIX.21	I/O	
96	PIX.22	I/O	
97	PIX.23	I/O	
98	MEM RW	O	Memory Read/Write Control signal input terminal.
99	ADR.15	O	Memory Address Output Bus terminals. (16-Bit)
100	ADR.14	O	

4.9. IC1-IC4 on the JPEG/SCSI-1 Board and IC200-IC203 on the JPEG/SCSI-2 Board are using the Dynamic RAM IC YWKM428C256J.
Description of this IC is as follows:


Vcc 1
SC 2
SDQ0 3
SDQ1 4
SDQ2 5
SDQ3 6
$\overline{\text{DT}}/\overline{\text{OE}}$ 7
W0/DQ0 8
W1/DQ1 9
W2/DQ2 10
W3/DQ3 11
Vss 12
$\overline{\text{WB}}/\overline{\text{WE}}$ 13
$\overline{\text{RAS}}$ 14
A8 15
A7 16
A6 17
A5 18
A4 19
Vcc 20
(TOP VIEW)
40 Vss
39 SDQ7
38 SDQ6
37 SDQ5
36 SDQ4
35 $\overline{\text{SE}}$
34 W7/DQ7
33 W6/DQ6
32 W5/DQ5
31 W4/DQ4
30 Vss
29 DSF
28 N.C.
27 $\overline{\text{CAS}}$
26 QSF
25 A0
24 A1
23 A2
22 A3
21 Vss

Pin	Name	I/O	Description
1	Vcc	–	Power supply terminal.
2	SC	I	Serial Clock Pulse input terminal.
3	SDQ0	I/O	Serial Data input/output terminals. (8-Bit)
4	SDQ1	I/O	
5	SDQ2	I/O	
6	SDQ3	I/O	
7	$\overline{\text{DT}}/\overline{\text{OE}}$	I	Data transfer/Output Enable signal input terminal.
8	W0/DQ0	I/O	Write Mask/Data input/output terminals. (8-Bit)
9	W1/DQ1	I/O	
10	W2/DQ2	I/O	
11	W3/DQ3	I/O	
12	Vss	–	Ground terminal.
13	$\overline{\text{WB}}/\overline{\text{WE}}$	I	Write Per Bit/Write Enable signal input terminal.
14	$\overline{\text{RAS}}$	I	Row Address Strobe signal input terminal.
15	A8	I	Address signal input terminals. (9-Bit)
16	A7	I	
17	A6	I	
18	A5	I	
19	A4	I	Address signal input terminals. (9-Bit)
20	Vcc	–	Power supply terminal.
21	Vss	–	Ground terminal.
22	A3	I	Address signal input terminals. (9-Bit)
23	A2	I	
24	A1	I	
25	A0	I	
26	QSF	O	Special Function Flag output terminal.
27	$\overline{\text{CAS}}$	I	Column Address Strobe signal input terminal.
28	N.C.	–	Non connection.
29	DSF	I	Special Function Flag input terminal.
30	Vss	–	Ground terminal.
31	W4/DQ4	I/O	Write Mask/Data input/output terminals. (8-Bit)
32	W5/DQ5	I/O	
33	W6/DQ6	I/O	
34	W7/DQ7	I/O	
35	$\overline{\text{SE}}$	I	Serial Enable signal input terminal.
36	SDQ4	I/O	Serial Data input/output terminals. (8-Bit)
37	SDQ5	I/O	
38	SDQ6	I/O	
39	SDQ7	I/O	
40	Vss	–	Ground terminal.

5.4. IC26 on the JPEG/SCSI-1 Board and IC200-IC203 on the JPEG/SCSI-2 Board are using the 12-Bit Latch IC YWTMS4C2970. Description of this IC is as follows:

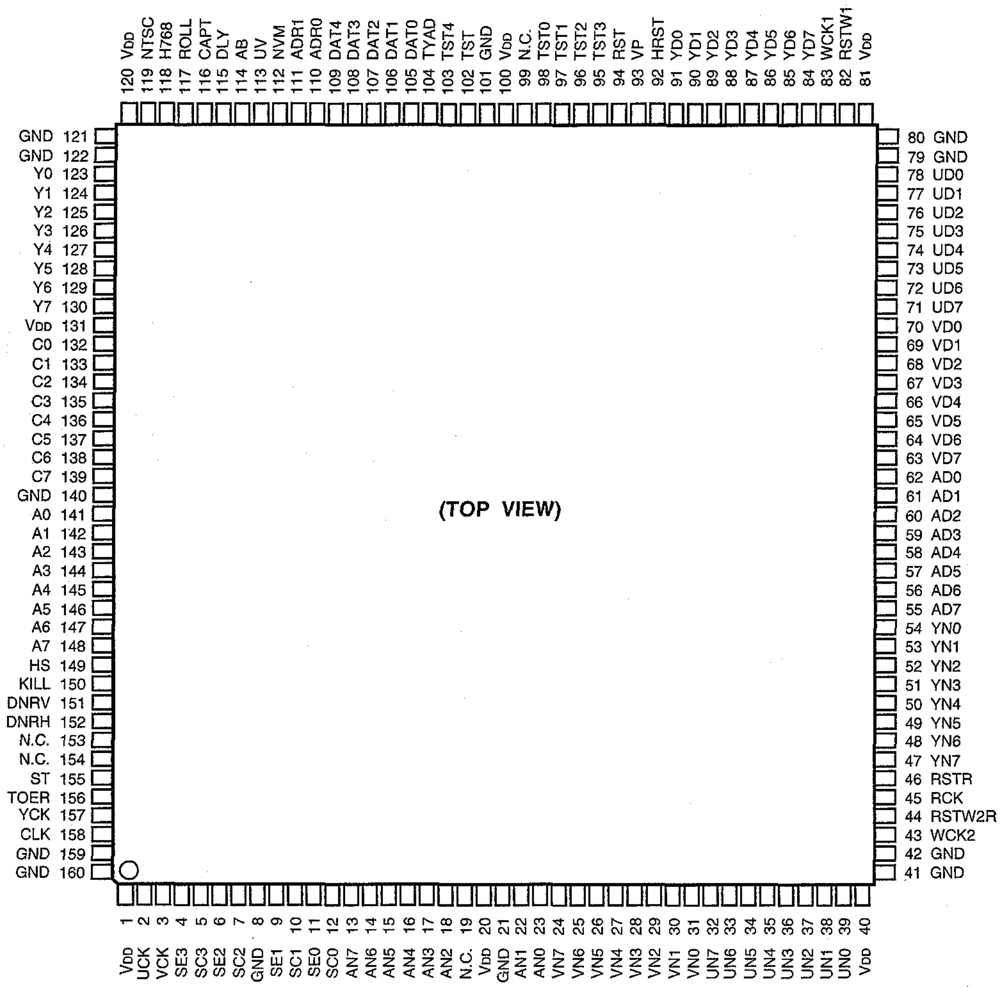

Vss 1
D11 2
D10 3
D9 4
D8 5
D7 6
D6 7
D5 8
D4 9
D3 10
D2 11
D1 12
D0 13
SWCK 14
RSTW 15
W 16
IE 17
Vcc 18
(TOP VIEW)
36 Vss
35 Q11
34 Q10
33 Q9
32 Q8
31 Q7
30 Q6
29 Q5
28 Q4
27 Q3
26 Q2
25 Q1
24 Q0
23 SRCK
22 RSTR
21 R
20 OE
19 Vcc

Pin	Name	I/O	Description
22	RSTR	I	Reset Read Pulse input terminal.
23	SRCK	I	Write Clock Pulse input terminal.
24	Q0	O	Data output terminals. (12-Bit)
25	Q1	O	
26	Q2	O	
27	Q3	O	
28	Q4	O	
29	Q5	O	
30	Q6	O	
31	Q7	O	
32	Q8	O	
33	Q9	O	
34	Q10	O	
35	Q11	O	
36	Vss	–	Ground terminal.

Pin	Name	I/O	Description
1	Vss	–	Ground terminal.
2	D11	I	Data input terminals. (12-Bit)
3	D10	I	
4	D9	I	
5	D8	I	
6	D7	I	
7	D6	I	
8	D5	I	
9	D4	I	
10	D3	I	
11	D2	I	
12	D1	I	
13	D0	I	
14	SWCK	I	Write Clock Pulse input terminal.
15	RSTW	I	Reset Write Pulse input terminal.
16	W	I	Write signal input terminal.
17	IE	I	Input Enable signal input terminal.
18	Vcc	–	Power supply terminal.
19	Vcc	–	Power supply terminal.
20	OE	I	Onput Enable signal input terminal.
21	R	I	Read signal input terminal.

5. CG Board

5.1. *IC43 on the CG Board is using the Scan Converter CMOS Gate Array Logic IC YWPD65644040.*
Description of this IC is as follows:


120 VDD
119 NTSC
118 H768
117 ROLL
116 CAPT
115 DLY
114 AB
113 UV
112 NVM
111 ADR1
110 ADR0
109 DAT4
108 DAT3
107 DAT2
106 DAT1
105 DAT0
104 TYAD
103 TST4
102 TST
101 GND
100 VDD
99 N.C.
98 TST0
97 TST1
96 TST2
95 TST3
94 RST
93 VP
92 HRST
91 YD0
90 YD1
89 YD2
88 YD3
87 YD4
86 YD5
85 YD6
84 YD7
83 WCK1
82 RSTW1
81 VDD
GND 121
GND 122
Y0 123
Y1 124
Y2 125
Y3 126
Y4 127
Y5 128
Y6 129
Y7 130
VDD 131
C0 132
C1 133
C2 134
C3 135
C4 136
C5 137
C6 138
C7 139
GND 140
A0 141
A1 142
A2 143
A3 144
A4 145
A5 146
A6 147
A7 148
HS 149
KILL 150
DNRV 151
DNRH 152
N.C. 153
N.C. 154
ST 155
TOER 156
YCK 157
CLK 158
GND 159
GND 160
(TOP VIEW)
80 GND
79 GND
78 UD0
77 UD1
76 UD2
75 UD3
74 UD4
73 UD5
72 UD6
71 UD7
70 VD0
69 VD1
68 VD2
67 VD3
66 VD4
65 VD5
64 VD6
63 VD7
62 AD0
61 AD1
60 AD2
59 AD3
58 AD4
57 AD5
56 AD6
55 AD7
54 YN0
53 YN1
52 YN2
51 YN3
50 YN4
49 YN5
48 YN6
47 YN7
46 RSTR
45 RCK
44 RSTW2R
43 WCK2
42 GND
41 GND
1 VDD
2 UCK
3 VCK
4 SE3
5 SC3
6 SE2
7 SC2
8 GND
9 SE1
10 SC1
11 SE0
12 SC0
13 AN7
14 AN6
15 AN5
16 AN4
17 AN3
18 AN2
19 N.C.
20 VDD
21 GND
22 AN1
23 AN0
24 VN7
25 VN6
26 VN5
27 VN4
28 VN3
29 VN2
30 VN1
31 VN0
32 UN7
33 UN6
34 UN5
35 UN4
36 UN3
37 UN2
38 UN1
39 UN0
40 VDD

Pin	Name	I/O	Description
1	VDD	–	Power supply terminal.
2	UCK	O	U Clock Pulse output terminal.
3	VCK	O	V Clock Pulse output terminal.
4	SE3	O	SE3 signal output terminal.
5	SC3	O	SC3 signal output terminal.
6	SE2	O	SE2 signal output terminal.
7	SC2	O	SC2 signal output terminal.
8	GND	–	Ground terminal.
9	SE1	O	SE1 signal output terminal.
10	SC1	O	SC1 signal output terminal.
11	SE0	O	SE0 signal output terminal.
12	SC0	O	SC0 signal output terminal.
13	AN7	I	AN signal input terminals.
14	AN6	I	
15	AN5	I	

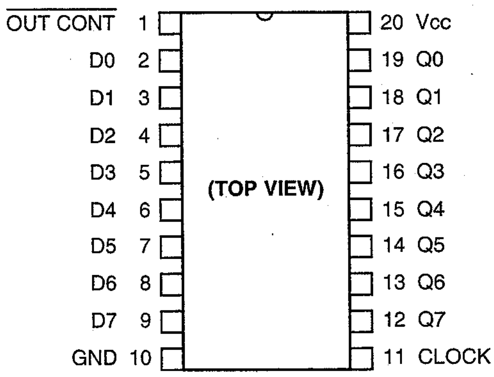
Pin	Name	I/O	Description
16	AN4	I	AN signal input terminals.
17	AN3	I	
18	AN2	I	
19	N.C.	–	Non connection.
20	VDD	–	Power supply terminal.
21	GND	–	Ground terminal.
22	AN1	I	AN signal input terminals.
23	AN0	I	
24	VN7	I	VN signal input terminals.
25	VN6	I	
26	VN5	I	
27	VN4	I	
28	VN3	I	
29	VN2	I	
30	VN1	I	

Pin	Name	I/O	Description
31	VN0	I	VN signal input terminals.
32	UN7	I	UN signal input terminals.
33	UN6	I	
34	UN5	I	
35	UN4	I	
36	UN3	I	
37	UN2	I	
38	UN1	I	
39	UN0	I	
40	VDD	–	Power supply terminal.
41	GND	–	Ground terminal.
42	GND	–	Ground terminal.
43	WCK2	O	Write Clock Pulse output terminal.
44	RSTW2R	O	RSTW2R signal output terminal.
45	RCK	O	Read Clock Pulse output terminal.
46	RSTR	O	Reset Pulse output terminal.
47	YN7	I	YN signal input terminals.
48	YN6	I	
49	YN5	I	
50	YN4	I	
51	YN3	I	
52	YN2	I	
53	YN1	I	
54	YN0	I	
55	AD7	I	AD signal input terminals.
56	AD6	I	
57	AD5	I	
58	AD4	I	
59	AD3	I	
60	AD2	I	
61	AD1	I	
62	AD0	I	
63	VD7	I	VD signal input terminals.
64	VD6	I	
65	VD5	I	
66	VD4	I	
67	VD3	I	
68	VD2	I	
69	VD1	I	
70	VD0	I	
71	UD7	I	UD signal input terminals.
72	UD6	I	
73	UD5	I	
74	UD4	I	
75	UD3	I	
76	UD2	I	
77	UD1	I	
78	UD0	I	
79	GND	–	Ground terminal.
80	GND	–	Ground terminal.
81	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
82	RSTW1	O	Reset Pulse output terminal.
83	WCK1	O	Write Clock Pulse output terminal.
84	YD7	I	YD signal input terminals.
85	YD6	I	
86	YD5	I	
87	YD4	I	
88	YD3	I	
89	YD2	I	
90	YD1	I	
91	YD0	I	
92	HRST	I	H Reset Pulse input terminal.
93	VP	I	VP signal input terminals.
94	RST	I	Reset Pulse input terminal.
95	TST3	I	Test signal input terminals.
96	TST2	I	
97	TST1	I	
98	TST0	I	
99	N.C.	–	Non connection.
100	VDD	–	Power supply terminal.
101	GND	–	Ground terminal.
102	TST	I	Test signal input terminals.
103	TST4	I	
104	TYAD	I	TYAD signal input terminal.
105	DAT0	I	Data input terminals.
106	DAT1	I	
107	DAT2	I	
108	DAT3	I	
109	DAT4	I	
110	ADR0	I	Address signal input terminals.
111	ADR1	I	
112	NVM	I	NVM signal input terminal.
113	UV	I	UV Selection signal input terminal.
114	AB	I	AB signal input terminal.
115	DLY	I	Delay signal input terminal.
116	CAPT	I	CAPT signal input terminal.
117	ROLL	I	ROLL signal input terminal.
118	H768	I	H768 signal input terminal.
119	NTSC	I	NTSC/PAL Selection signal input terminal.
120	VDD	–	Power supply terminal.
121	GND	–	Ground terminal.
122	GND	–	Ground terminal.
123	Y0	O	Y Data output terminals. (8-Bit)
124	Y1	O	
125	Y2	O	
126	Y3	O	
127	Y4	O	
128	Y5	O	
129	Y6	O	
130	Y7	O	
131	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
132	C0	O	C Data output terminals. (8-Bit)
133	C1	O	
134	C2	O	
135	C3	O	
136	C4	O	
137	C5	O	
138	C6	O	
139	C7	O	
140	GND	–	Ground terminal.
141	A0	O	A Data output terminals. (8-Bit)
142	A1	O	
143	A2	O	
144	A3	O	
145	A4	O	
146	A5	O	
147	A6	O	
148	A7	O	
149	HS	O	HS signal output terminal.
150	KILL	I	KILL signal input terminal.
151	DNRV	I	DNRV signal input terminal.
152	DNRH	I	DNRH signal input terminal.
153	N.C.	–	Non connection.
154	N.C.	–	Non connection.
155	ST	I	ST signal input terminal.
156	TOER	I	TOER signal input terminal.
157	YCK	O	Y Clock Pulse output terminal.
158	CLK	I	Clock Pulse input terminal.
159	GND	–	Ground terminal.
160	GND	–	Ground terminal.

5.2. IC21, IC25 and IC29 on the CG Board are using the Octal 3-State D-FFs IC YWMC74AC574M.
Description of this IC is as follows:

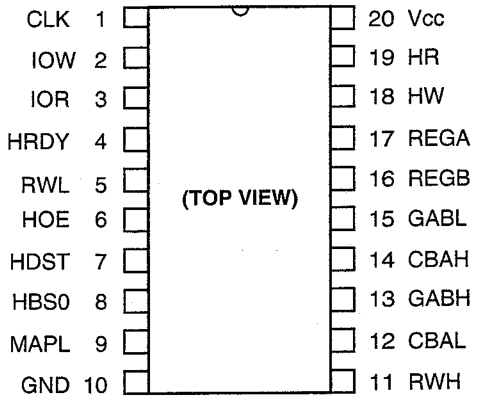

OUT CONT 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
20 Vcc
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7
11 CLOCK
(TOP VIEW)

Truth Table

INPUTS		FUNCTION
$\overline{\text{OUT CONT}}$	CLOCK	
*	↑	Data Load
H	*	Z

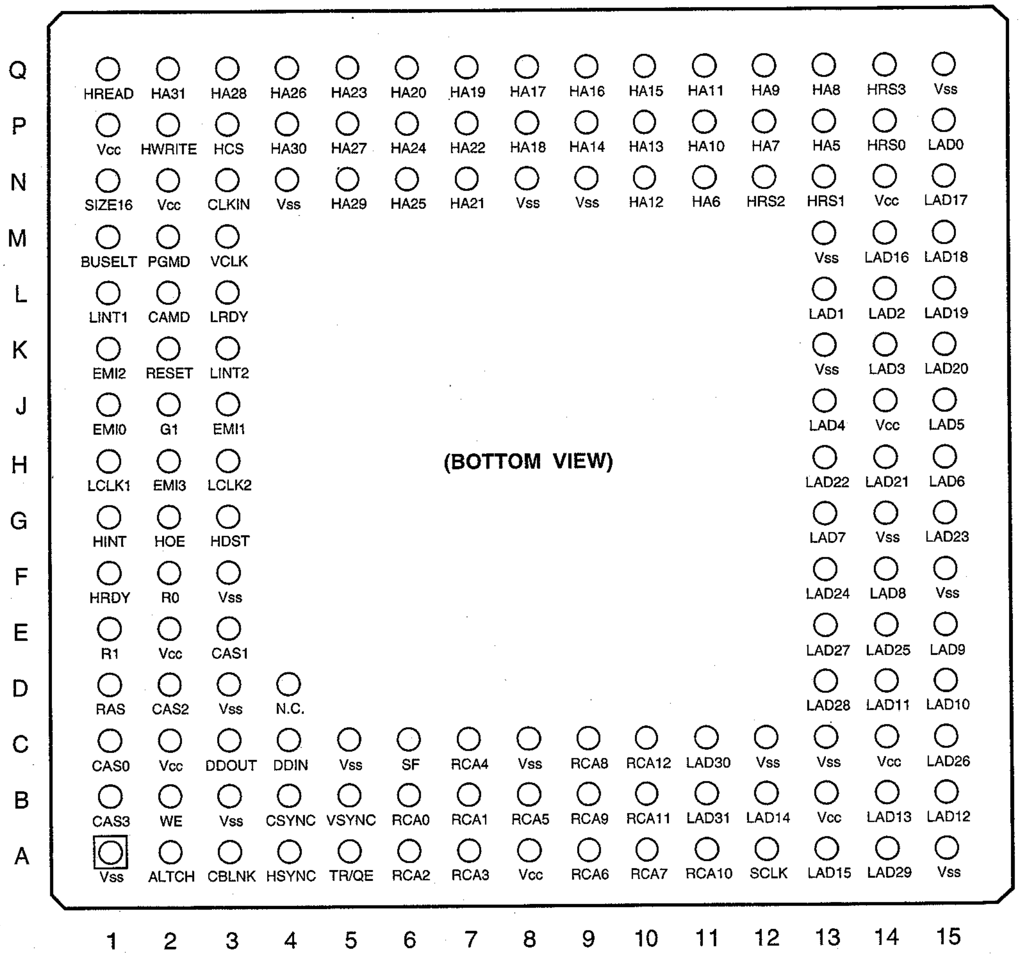
* : Don't care.
Z : High Impedance

5.3. IC59 on the CG Board is using the GSP RW Logic COntrol IC YW18CV8AV008.
Description of this IC is as follows:


CLK 1
IOW 2
IOR 3
HRDY 4
RWL 5
HOE 6
HDST 7
HBS0 8
MAPL 9
GND 10
20 Vcc
19 HR
18 HW
17 REGA
16 REGB
15 GABL
14 CBAH
13 GABH
12 CBAL
11 RWH
(TOP VIEW)

Pin	Name	I/O	Description
1	CLK	I	Clock Pulse input terminal.
2	IOW	I	IOW signal input terminal.
3	IOR	I	IOR signal input terminal.
4	HRDY	I	HRDY signal input terminal.
5	RWL	I	RWL signal input terminal.
6	HOE	I	HOE signal input terminal.
7	HDST	I	HDST signal input terminal.
8	HBS0	I	HBS0 signal input terminal.
9	MAPL	I	MAPL signal input terminal.
10	GND	–	Ground terminal.
11	RWH	I	RWH signal input terminal.
12	CBAL	O	CBAL signal output terminal.
13	GABH	O	GABH signal output terminal.
14	CBAH	O	CBAH signal output termina.
15	GABL	O	GABL signal output terminal.
16	REGB	O	REGB signal output terminal.
17	REGA	O	REGB signal output terminal.
18	HW	O	HW signal output terminal.
19	HR	O	HR signal output terminal.
20	Vcc	–	Power supply terminal.

5.4. IC62 on the CG Board is using the Graphic System Processor Gate Array Logic IC YWTMS34020AGBL.
Description of this IC is as follows:



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Q	HREAD	HA31	HA28	HA26	HA23	HA20	HA19	HA17	HA16	HA15	HA11	HA9	HA8	HRS3	Vss
P	Vcc	HWRITE	HCS	HA30	HA27	HA24	HA22	HA18	HA14	HA13	HA10	HA7	HA5	HRS0	LAD0
N	SIZE16	Vcc	CLKIN	Vss	HA29	HA25	HA21	Vss	Vss	HA12	HA6	HRS2	HRS1	Vcc	LAD17
M	BUSELT	PGMD	VCLK										Vss	LAD16	LAD18
L	LINT1	CAMD	LRDY										LAD1	LAD2	LAD19
K	EMI2	RESET	LINT2										Vss	LAD3	LAD20
J	EMI0	G1	EMI1										LAD4	Vcc	LAD5
H	LCLK1	EMI3	LCLK2										LAD22	LAD21	LAD6
G	HINT	HOE	HDST										LAD7	Vss	LAD23
F	HRDY	R0	Vss										LAD24	LAD8	Vss
E	R1	Vcc	CAS1										LAD27	LAD25	LAD9
D	RAS	CAS2	Vss	N.C.									LAD28	LAD11	LAD10
C	CAS0	Vcc	DDOUT	DDIN	Vss	SF	RCA4	Vss	RCA8	RCA12	LAD30	Vss	Vss	Vcc	LAD26
B	CAS3	WE	Vss	CSYNC	VSYNC	RCA0	RCA1	RCA5	RCA9	RCA11	LAD31	LAD14	Vcc	LAD13	LAD12
A	Vss	ALTCH	CBLNK	HSYNC	TR/QE	RCA2	RCA3	Vcc	RCA6	RCA7	RCA10	SCLK	LAD15	LAD29	Vss

Pin	Name	I/O	Description
A1	Vss	–	Ground terminal.
A2	ALTCH	O	ALTCH signal output terminal.
A3	CBLNK	I	C. Blanking signal input terminal.
A4	HSYNC	I	H Sync signal input terminal.
A5	TR/QE	O	TR/QE signal output terminal.
A6	RCA2	O	Address signal output terminals.
A7	RCA3	O	
A8	Vcc	–	Power supply terminal.
A9	RCA6	O	Address signal output terminals.
A10	RCA7	O	
A11	RCA10	O	
A12	SCLK	I	Serial Clock Pulse input terminal.
A13	LAD15	I/O	Data input/output terminals. (32-Bit)
A14	LAD29	I/O	
A15	Vss	–	Ground terminal.

Pin	Name	I/O	Description
B1	CAS3	O	CAS3 signal output terminal.
B2	WE	O	Write Enable signal output terminal.
B3	Vss	–	Ground terminal.
B4	CSYNC	I	C Sync signal input terminal.
B5	VSYNC	I	V Sync signal input terminal.
B6	RCA0	O	Address signal output terminals.
B7	RCA1	O	
B8	RCA5	O	
B9	RCA9	O	
B10	RCA11	O	
B11	LAD31	I/O	Data input/output terminals. (32-Bit)
B12	LAD14	I/O	
B13	Vcc	–	Power supply terminal.
B14	LAD13	I/O	Data input/output terminals. (32-Bit)
B15	LAD12	I/O	

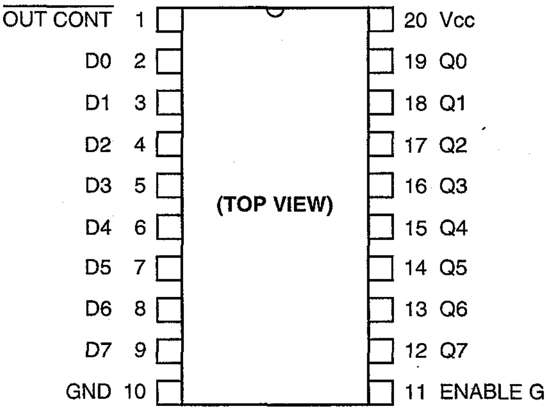
Pin	Name	I/O	Description
C1	CAS0	O	CAS0 signal output terminal.
C2	Vcc	–	Power supply terminal.
C3	DDOUT	O	DD signal output terminal.
C4	DDIN	I	DD signal input terminal.
C5	Vss	–	Ground terminal.
C6	SF	O	SF signal output terminals.
C7	RCA4	O	Address signal output terminals.
C8	Vss	–	Ground terminal.
C9	RCA8	O	Address signal output terminals.
C10	RCA12	O	
C11	LAD30	I/O	Data input/output terminals. (32-Bit)
C12	Vss	–	Ground terminal.
C13	Vss	–	Ground terminal.
C14	Vcc	–	Power supply terminal.
C15	LAD26	I/O	Data input/output terminals. (32-Bit)
D1	RAS	O	RAS signal output terminal.
D2	CAS2	O	CAS2 signal output terminal.
D3	Vss	–	Ground terminal.
D4	N.C.	–	Non connection.
D13	LAD28	I/O	Data input/output terminals. (32-Bit)
D14	LAD11	I/O	
D15	LAD10	I/O	
E1	R1	O	R1 signal output terminal.
E2	Vcc	–	Power supply terminal.
E3	CAS1	O	Column Address Strobe signal output terminal.
E13	LAD27	I/O	Data input/output terminals. (32-Bit)
E14	LAD25	I/O	
E15	LAD9	I/O	
F1	HRDY	O	HRDY signal output terminal.
F2	R0	O	R0 signal output terminal.
F3	Vss	–	Ground terminal.
F13	LAD24	I/O	Data input/output terminals. (32-Bit)
F14	LAD8	I/O	
F15	Vss	–	Ground terminal.
G1	HINT	O	HINT signal output terminal.
G2	HOE	O	HOE signal output terminal.
G3	HDST	O	HDST signal output terminal.
G13	LAD7	I/O	Data input/output terminals. (32-Bit)
G14	Vss	–	Ground terminal.
G15	LAD23	I/O	Data input/output terminals. (32-Bit)
H1	LCLK1	O	Clock Pulse output terminal.
H2	EMI3	O	EMI3 signal output terminal.
H3	LCLK2	O	Clock Pulse output terminal.
H13	LAD22	I/O	Data input/output terminals. (32-Bit)
H14	LAD21	I/O	
H15	LAD6	I/O	
J1	EMI0	O	EMI0 signal output terminal.
J2	G1	I	G1 signal output terminal.
J3	EMI1	O	EMI1 signal output terminal.
J13	LAD4	I/O	Data input/output terminals. (32-Bit)

Pin	Name	I/O	Description
J14	Vcc	–	Power supply terminal.
J15	LAD5	I/O	Data input/output terminals. (32-Bit)
K1	EMI2	O	EMI2 signal output terminal.
K2	RESET	I	Reset Pulse input terminal.
K3	LINT2	I	LINT2 signal input terminal.
K13	Vss	–	Ground terminal.
K14	LAD3	I/O	Data input/output terminals. (32-Bit)
K15	LAD20	I/O	
L1	LINT1	I	LINT1 signal input terminal.
L2	CAMD	I	CAMD signal input terminal.
L3	LRDY	O	LRDY signal output terminal.
L13	LAD1	I/O	Data input/output terminals. (32-Bit)
L14	LAD2	I/O	
L15	LAD19	I/O	
M1	BUSELT	I	BUSELT signal input terminal.
M2	PGMD	I	PGMD signal input terminal.
M3	VCLK	I	13.5MHz Clock Pulse input terminal.
M13	Vss	–	Ground terminal.
M14	LAD16	I/O	Data input/output terminals. (32-Bit)
M15	LAD18	I/O	
N1	SIZE16	I	SIZE16 signal input terminal.
N2	Vcc	–	Power supply terminal.
N3	CLKIN	I	32MHz Clock Pulse input terminal.
N4	Vss	–	Ground terminal.
N5	HA29	I	HA29 signal input terminal.
N6	HA25	I	HA25 signal input terminal.
N7	HA21	I	HA21 signal input terminal.
N8	Vss	–	Ground terminal.
N9	Vss	–	Ground terminal.
N10	HA12	I	HA12 signal input terminal.
N11	HA6	I	HA6 signal input terminal.
N12	HRS2	I	HRS2 signal input terminal.
N13	HRS1	I	HRS1 signal input terminal.
N14	Vcc	–	Power supply terminal.
N15	LAD17	I/O	Data input/output terminals. (32-Bit)
P1	Vcc	–	Power supply terminal.
P2	HWRITE	I	H Write signal input terminal.
P3	HCS	I	HCS signal input terminal.
P4	HA30	I	HA30 signal input terminal.
P5	HA27	I	HA27 signal input terminal.
P6	HA24	I	HA24 signal input terminal.
P7	HA22	I	HA22 signal input terminal.
P8	HA18	I	HA18 signal input terminal.
P9	HA14	I	HA14 signal input terminal.
P10	HA13	I	HA13 signal input terminal.
P11	HA10	I	HA10 signal input terminal.
P12	HA7	I	HA7 signal input terminal.
P13	HA5	I	HA5 signal input terminal.
P14	HRS0	I	HRS0 signal input terminal.
P15	LAD0	I/O	Data input/output terminals. (32-Bit)

Pin	Name	I/O	Description
Q1	HREAD	I	H Read signal input terminal.
Q2	HA31	I	HA31 signal input terminal.
Q3	HA28	I	HA23 signal input terminal.
Q4	HA26	I	HA26 signal input terminal.
Q5	HA23	I	HA23 signal input terminal.
Q6	HA20	I	HA20 signal input terminal.
Q7	HA19	I	HA19 signal input terminal.
Q8	HA17	I	HA17 signal input terminal.
Q9	HA16	I	HA16 signal input terminal.
Q10	HA15	I	HA15 signal input terminal.
Q11	HA11	I	HA11 signal input terminal.
Q12	HA9	I	HA9 signal input terminal.
Q13	HA8	I	HA8 signal input terminal.
Q14	HRS3	I	HRS3 signal input terminal.
Q15	Vss	–	Ground terminal.

5.5. IC22, IC24, IC26, IC28, IC30 and IC32 on the CG Board are using the Octal 3-State D-Latches IC YWMC74HC573AF.

Description of this IC is as follows:


$\overline{\text{OUT CONT}}$ 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
(TOP VIEW)
20 Vcc
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7
11 ENABLE G

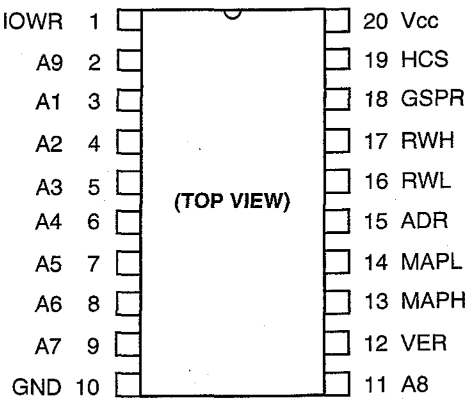
Truth Table

INPUTS		FUNCTION
$\overline{\text{OUT CONT}}$	ENABLE G	
L	L	Latch
L	H	Q = D
H	*	Z

* : Don't care.
Z : High Impedance

5.6. *IC60 on the CG Board is using the* DEC CG Logic Control IC YW18CV8AV006.

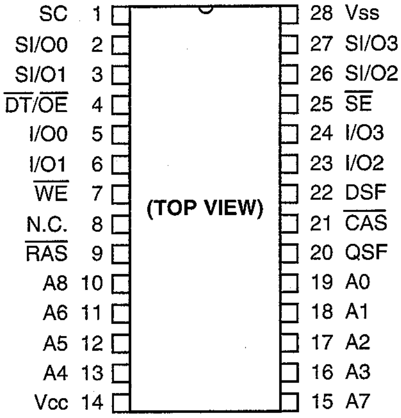
Description of this IC is as follows:


IOWR 1
A9 2
A1 3
A2 4
A3 5
A4 6
A5 7
A6 8
A7 9
GND 10
(TOP VIEW)
20 Vcc
19 HCS
18 GSPR
17 RWH
16 RWL
15 ADR
14 MAPL
13 MAPH
12 VER
11 A8

Pin	Name	I/O	Description
1	IOWR	I	IOWR signal input terminal.
2	A9	I	Address signal input terminals. (9-Bit)
3	A1	I	
4	A2	I	
5	A3	I	
6	A4	I	
7	A5	I	
8	A6	I	
9	A7	I	
10	GND	–	Ground terminal.
11	A8	I	Address signal input terminals. (9-Bit)
12	VER	O	VER signal output terminal.
13	MAPH	O	MAPH signal output terminal.
14	MAPL	O	MAPL signal output terminal.
15	ADR	O	ADR signal output terminal.
16	RWL	O	RWL signal output terminal.
17	RWH	O	RWH signal output terminal.
18	GSPR	O	GSPR signal output terminal.
19	HCS	O	HCS signal output terminal.
20	Vcc	–	Power supply terminal.

5.7. IC2, IC3, IC6, IC7, IC9, IC10, IC12, IC13, IC15, IC16, IC18, IC19, IC91, IC92, IC94 and IC95 on the CG Board are using the 256K-word x 4-Bit CMOS Multiport RAM IC YWHM534253AJ.

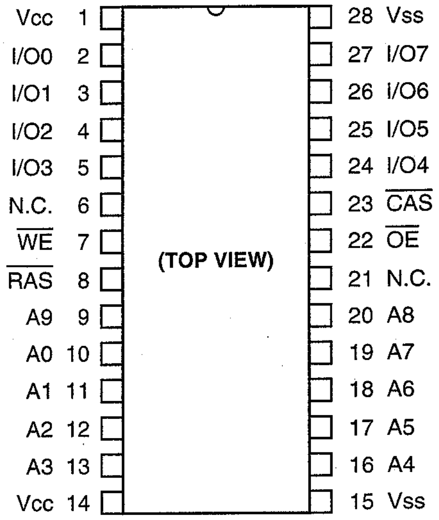
Description of this IC is as follows:


SC 1
SI/O0 2
SI/O1 3
$\overline{DT/OE}$ 4
I/O0 5
I/O1 6
$\overline{WE}$ 7
N.C. 8
$\overline{RAS}$ 9
A8 10
A6 11
A5 12
A4 13
Vcc 14
28 Vss
27 SI/O3
26 SI/O2
25 $\overline{SE}$
24 I/O3
23 I/O2
22 DSF
21 $\overline{CAS}$
20 QSF
19 A0
18 A1
17 A2
16 A3
15 A7
(TOP VIEW)

Pin	Name	I/O	Description
1	SC	I	Serial Clock Pulse input terminal.
2	SI/O0	I/O	SAM Port Data input/output terminals.
3	SI/O1	I/O	
4	$\overline{DT/OE}$	I	Data transfer/Output Enable signal input terminal.
5	I/O0	I/O	RAM Port Data input/output terminals.
6	I/O1	I/O	
7	$\overline{WE}$	I	Write Enable signal input terminal.
8	N.C.	–	Non connection.
9	$\overline{RAS}$	I	Row Address Strobe signal input terminal.
10	A8	I	Address signal input terminals. (9-Bit)
11	A6	I	
12	A5	I	
13	A4	I	
14	Vcc	–	Power supply terminal.
15	A7	I	Address signal input terminals. (9-Bit)
16	A3	I	
17	A2	I	
18	A1	I	
19	A0	I	
20	QSF	O	Special Function Flag output terminal.
21	$\overline{CAS}$	I	Column Address Strobe signal input terminal.
22	DSF	I	Special Function Flag input terminal.
23	I/O2	I/O	RAM Port Data input/output terminals.
24	I/O3	I/O	
25	$\overline{SE}$	I	SAM Port Enable signal input terminal.
26	SI/O2	I/O	SAM Port Data input/output terminals.
27	SI/O3	I/O	
28	Vss	–	Ground terminal.

5.8. IC74-IC81 on the CG Board are using the 524,288-word x 8-Bit Dynamic RAM IC YWHM514800JP.

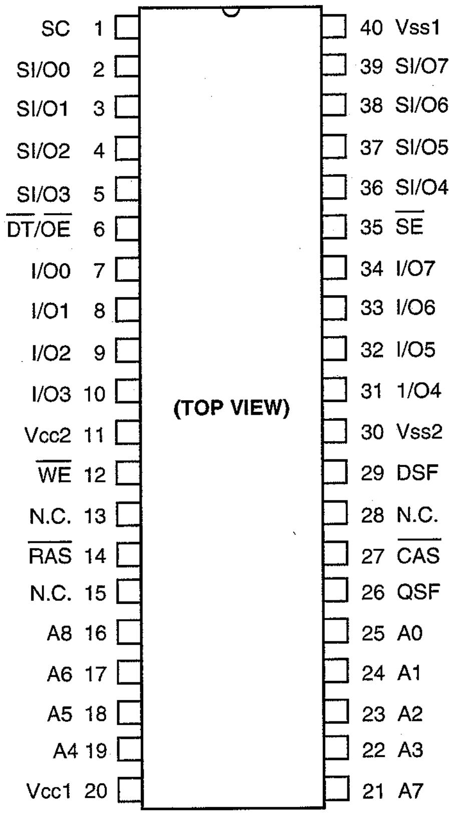
Description of this IC is as follows:


Vcc 1
I/O0 2
I/O1 3
I/O2 4
I/O3 5
N.C. 6
$\overline{WE}$ 7
$\overline{RAS}$ 8
A9 9
A0 10
A1 11
A2 12
A3 13
Vcc 14
28 Vss
27 I/O7
26 I/O6
25 I/O5
24 I/O4
23 $\overline{CAS}$
22 $\overline{OE}$
21 N.C.
20 A8
19 A7
18 A6
17 A5
16 A4
15 Vss
(TOP VIEW)

Pin	Name	I/O	Description
1	Vcc	–	Power supply terminal.
2	I/O0	I/O	Data input/output terminals. (8-Bit)
3	I/O1	I/O	
4	I/O2	I/O	
5	I/O3	I/O	
6	N.C.	–	Non connection.
7	$\overline{WE}$	I	Write Enable signal input terminal.
8	$\overline{RAS}$	I	Row Address Strobe signal input terminal.
9	A9	I	Address signal input terminals. (10-Bit)
10	A0	I	
11	A1	I	
12	A2	I	
13	A3	I	
14	Vcc	–	Power supply terminal.
15	Vss	–	Ground terminal.
16	A4	I	Address signal input terminals. (10-Bit)
17	A5	I	
18	A6	I	
19	A7	I	
20	A8	I	
21	N.C.	–	Non connection.
22	$\overline{OE}$	I	Output Enable signal input terminal.
23	$\overline{CAS}$	I	Column Address Strobe signal input terminal.
24	I/O4	I/O	Data input/output terminals. (8-Bit)
25	I/O5	I/O	
26	I/O6	I/O	
27	I/O7	I/O	
28	Vss	–	Ground terminal.

5.9. IC4, IC8, IC11, IC14, IC17, IC20, IC93 and IC96 on the CG Board are using the 128-word x 8-Bit CMOS Multiport RAM IC YWHM538123AJ.

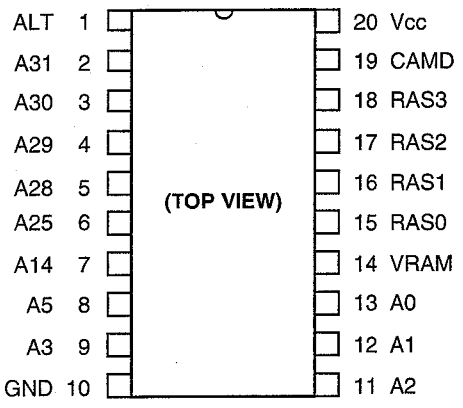
Description of this IC is as follows:


SC 1
SI/O0 2
SI/O1 3
SI/O2 4
SI/O3 5
$\overline{\text{DT}}/\overline{\text{OE}}$ 6
I/O0 7
I/O1 8
I/O2 9
I/O3 10
Vcc2 11
$\overline{\text{WE}}$ 12
N.C. 13
$\overline{\text{RAS}}$ 14
N.C. 15
A8 16
A6 17
A5 18
A4 19
Vcc1 20
(TOP VIEW)
40 Vss1
39 SI/O7
38 SI/O6
37 SI/O5
36 SI/O4
35 $\overline{\text{SE}}$
34 I/O7
33 I/O6
32 I/O5
31 1/O4
30 Vss2
29 DSF
28 N.C.
27 $\overline{\text{CAS}}$
26 QSF
25 A0
24 A1
23 A2
22 A3
21 A7

Pin	Name	I/O	Description
1	SC	I	Serial Clock Pulse input terminal.
2	SI/O0	I/O	SAM Port Data input/output terminals. (8-Bit)
3	SI/O1	I/O	
4	SI/O2	I/O	
5	SI/O3	I/O	
6	$\overline{\text{DT}}/\overline{\text{OE}}$	I	Data Transfer signal input terminal or Output Enable signal input terminal.
7	I/O0	I/O	RAM Port Data input/output terminals. (8-Bit)
8	I/O1	I/O	
9	I/O2	I/O	
10	I/O3	I/O	
11	Vcc2	–	Power supply terminal.
12	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
13	N.C.	–	Non connection.
14	$\overline{\text{RAS}}$	I	Row Address Strobe signal input terminal.
15	N.C.	–	Non connection.
16	A8	I	Address signal input terminals. (9-Bit)
17	A6	I	
18	A5	I	
19	A4	I	
20	Vcc1	–	Power supply terminal.
21	A7	I	Address signal input terminals. (9-Bit)
22	A3	I	
23	A2	I	
24	A1	I	
25	A0	I	
26	QSF	O	Special Function Flag output terminal.
27	$\overline{\text{CAS}}$	I	Column Address Strobe signal input terminal.
28	DSF	I	Special Function Flag input terminal.
29	N.C.	–	Non connection.
30	Vss2	–	Ground terminal.
31	I/O4	I/O	RAM Port Data input/output terminals. (8-Bit)
32	I/O5	I/O	
33	I/O6	I/O	
34	I/O7	I/O	
35	$\overline{\text{SE}}$	I	$\overline{\text{SE}}$ signal input terminal.
36	SI/O4	I/O	SAM Port Data input/output terminals. (8-Bit)
37	SI/O5	I/O	
38	SI/O6	I/O	
39	SI/O7	I/O	
40	Vss1	–	Ground terminal.

5.10. IC68 on the CG Board is using the VRAM RAS Logic Control IC YW18CV8AV009.

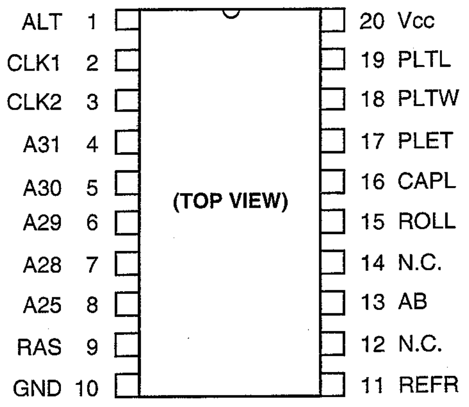
Description of this IC is as follows:


ALT 1
A31 2
A30 3
A29 4
A28 5
A25 6
A14 7
A5 8
A3 9
GND 10
(TOP VIEW)
20 Vcc
19 CAMD
18 RAS3
17 RAS2
16 RAS1
15 RAS0
14 VRAM
13 A0
12 A1
11 A2

Pin	Name	I/O	Description
1	ALT	I	ALT signal input terminal.
2	A31	I	Address signal input terminals. (11-Bit)
3	A30	I	
4	A29	I	
5	A28	I	
6	A25	I	
7	A14	I	
8	A5	I	
9	A3	I	
10	GND	–	Ground terminal.
11	A2	I	Address signal input terminals. (11-Bit)
12	A1	I	
13	A0	I	
14	VRAM	O	VRAM signal output terminal.
15	RAS0	O	Row Address Strobe signal output terminals. (4-Bit)
16	RAS1	O	
17	RAS2	O	
18	RAS3	O	
19	CAMD	I	CAMD signal input terminal.
20	Vcc	–	Power supply terminal.

5.11. IC69 on the CG Board is using the GSP MD Logic Control IC YW18CV8AV007.

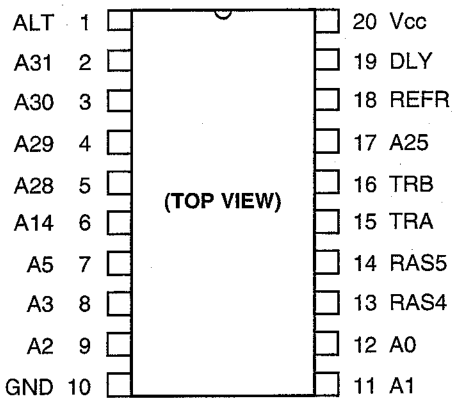
Description of this IC is as follows:


ALT 1
CLK1 2
CLK2 3
A31 4
A30 5
A29 6
A28 7
A25 8
RAS 9
GND 10
(TOP VIEW)
20 Vcc
19 PLTL
18 PLTW
17 PLET
16 CAPL
15 ROLL
14 N.C.
13 AB
12 N.C.
11 REFR

Pin	Name	I/O	Description
1	ALT	I	ALT signal input terminal.
2	CLK1	I	Clock Pulse input terminals. (2-Bit)
3	CLK2	I	
4	A31	I	Address signal input terminals. (5-Bit)
5	A30	I	
6	A29	I	
7	A28	I	
8	A25	I	
9	RAS	I	Row Address Strobe signal input terminal.
10	GND	–	Ground terminal.
11	REFR	I	REFR signal input terminal.
12	N.C.	I	Non connection
13	AB	O	AB signal output terminal.
14	N.C.	I	Non connection
15	ROLL	O	ROLL signal output terminal.
16	CAPL	O	CAPL signal output terminal.
17	PLET	O	PLET signal output terminal.
18	PLTW	O	PLTW signal output terminal.
19	PLTL	O	PLTL signal output terminal.
20	Vcc	–	Power supply terminal.

5.12. IC70 on the CG Board is using the DRAM RAS Logic Control IC YW18CV8AV010.

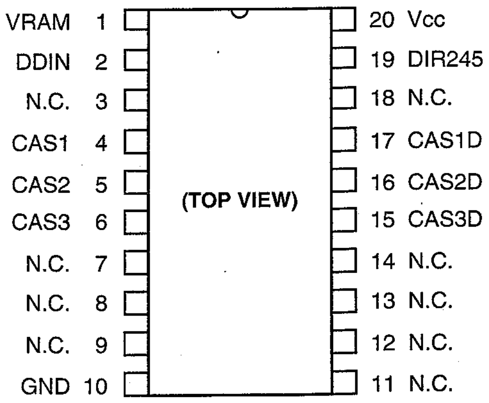
Description of this IC is as follows:


ALT 1
A31 2
A30 3
A29 4
A28 5
A14 6
A5 7
A3 8
A2 9
GND 10
(TOP VIEW)
20 Vcc
19 DLY
18 REFR
17 A25
16 TRB
15 TRA
14 RAS5
13 RAS4
12 A0
11 A1

Pin	Name	I/O	Description
1	ALT	I	ALT signal input terminal.
2	A31	I	Address signal input terminals. (11-Bit)
3	A30	I	
4	A29	I	
5	A28	I	
6	A14	I	
7	A5	I	
8	A3	I	
9	A2	I	
10	GND	–	Ground terminal.
11	A1	I	Address signal input terminals. (11-Bit)
12	A0	I	
13	RAS4	O	Row Address Strobe signal output terminals. (2-Bit)
14	RAS5	O	
15	TRA	O	TRA signal output terminal.
16	TRB	O	TRB signal output terminal.
17	A25	I	Address signal input terminals. (11-Bit)
18	REFR	O	REFR signal output terminal.
19	DLY	O	DLY signal output terminal.
20	Vcc	–	Power supply terminal.

5.13. IC71 on the CG Board is using the UV WR Logic Control IC YW18CV8AV011.

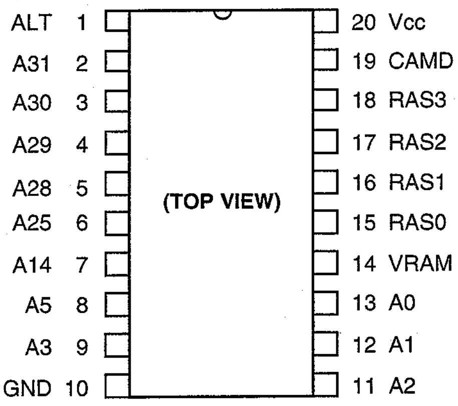
Description of this IC is as follows:


VRAM 1
DDIN 2
N.C. 3
CAS1 4
CAS2 5
CAS3 6
N.C. 7
N.C. 8
N.C. 9
GND 10
(TOP VIEW)
20 Vcc
19 DIR245
18 N.C.
17 CAS1D
16 CAS2D
15 CAS3D
14 N.C.
13 N.C.
12 N.C.
11 N.C.

Pin	Name	I/O	Description
1	VRAM	I	VRAM signal input terminal.
2	DDIN	I	DD signal input terminal.
3	N.C.	–	Non connection.
4	CAS1	I	Column Address Strobe signal output terminals. (3-Bit)
5	CAS2	I	
6	CAS3	I	
7	N.C.	–	Non connection.
8	N.C.	–	Non connection.
9	N.C.	–	Non connection.
10	GND	–	Ground terminal.
11	N.C.	–	Non connection.
12	N.C.	–	Non connection.
13	N.C.	–	Non connection.
14	N.C.	–	Non connection.
15	CAS3D	O	Column Address Strobe signal output terminals. (3-Bit)
16	CAS2D	O	
17	CAS1D	O	
18	N.C.	–	Non connection.
19	DLY	O	DLY signal output terminal.
20	Vcc	–	Power supply terminal.

5.14. IC68 on the CG Board is using the VRAM.RAS Logic Control IC YW18CV8AV009.

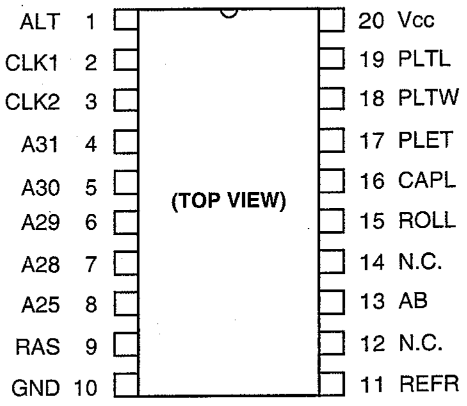
Description of this IC is as follows:


ALT 1
A31 2
A30 3
A29 4
A28 5
A25 6
A14 7
A5 8
A3 9
GND 10
(TOP VIEW)
20 Vcc
19 CAMD
18 RAS3
17 RAS2
16 RAS1
15 RAS0
14 VRAM
13 A0
12 A1
11 A2

Pin	Name	I/O	Description
1	ALT	I	ALT signal input terminal.
2	A31	I	Address signal input terminals. (11-Bit)
3	A30	I	
4	A29	I	
5	A28	I	
6	A25	I	
7	A14	I	
8	A5	I	
9	A3	I	
10	GND	–	Ground terminal.
11	A2	I	Address signal input terminals. (11-Bit)
12	A1	I	
13	A0	I	
14	VRAM	O	VRAM signal output terminal.
15	RAS0	O	Row Address Strobe signal output terminals. (4-Bit)
16	RAS1	O	
17	RAS2	O	
18	RAS3	O	
19	CAMD	I	CAMD signal input terminal.
20	Vcc	–	Power supply terminal.

5.15. IC69 on the CG Board is using the GSP MD Logic Control IC YW18CV8AV007.

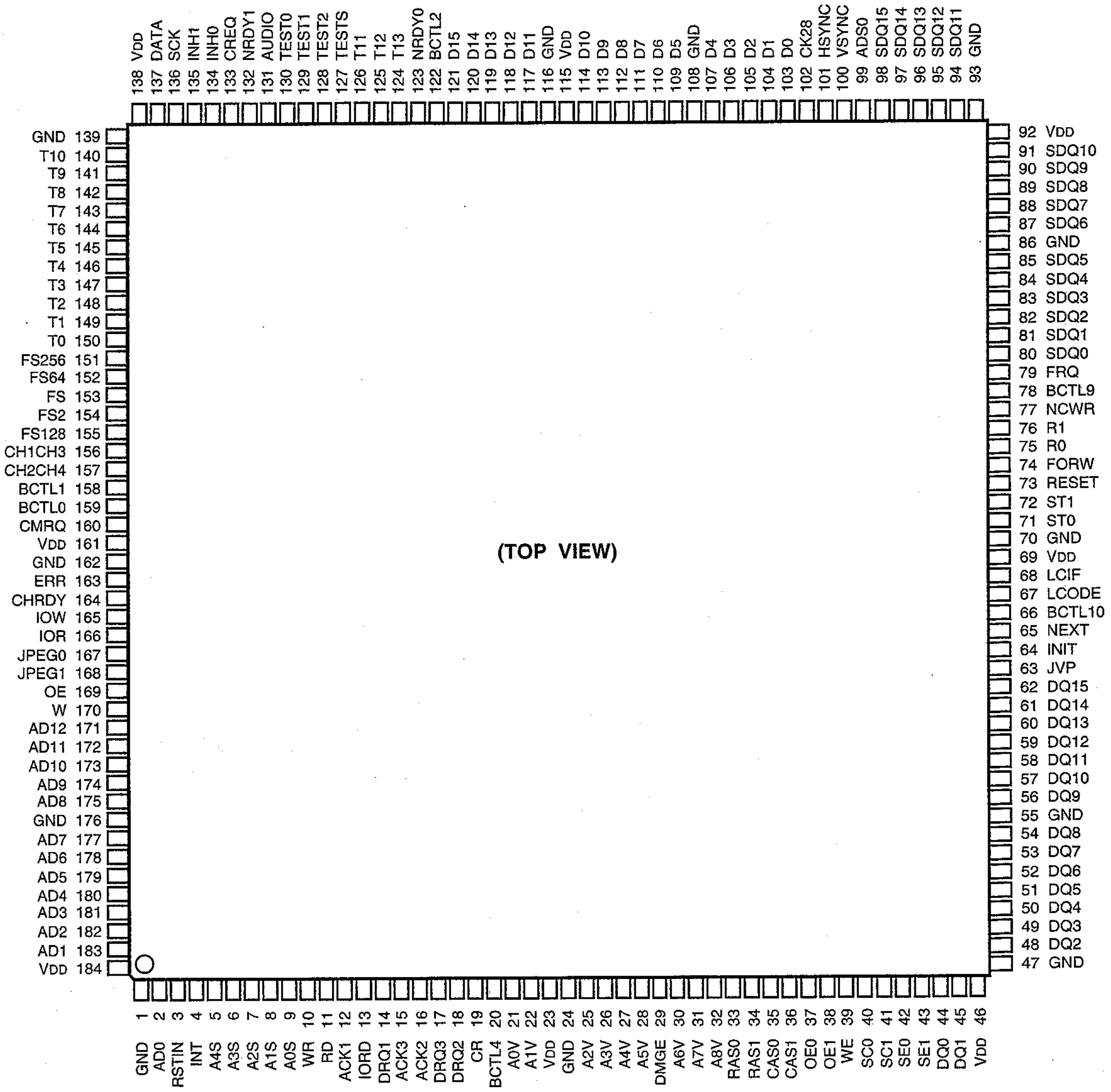
Description of this IC is as follows:


ALT 1
CLK1 2
CLK2 3
A31 4
A30 5
A29 6
A28 7
A25 8
RAS 9
GND 10
(TOP VIEW)
20 Vcc
19 PLTL
18 PLTW
17 PLET
16 CAPL
15 ROLL
14 N.C.
13 AB
12 N.C.
11 REFR

Pin	Name	I/O	Description
1	ALT	I	ALT signal input terminal.
2	CLK1	I	Clock Pulse input terminals. (2-Bit)
3	CLK2	I	
4	A31	I	Address signal input terminals. (5-Bit)
5	A30	I	
6	A29	I	
7	A28	I	
8	A25	I	
9	RAS	I	Row Address Strobe signal input terminal.
10	GND	–	Ground terminal.
11	REFR	I	REFR signal input terminal.
12	N.C.	I	Non connection
13	AB	O	AB signal output terminal.
14	N.C.	I	Non connection
15	ROLL	O	ROLL signal output terminal.
16	CAPL	O	CAPL signal output terminal.
17	PLET	O	PLET signal output terminal.
18	PLTW	O	PLTW signal output terminal.
19	PLTL	O	PLTL signal output terminal.
20	Vcc	–	Power supply terminal.

6. JPEG/SCSI-1 Board

6.1. IC19 on the JPEG/SCSI-1 Board is using the FIFO CMOS Gate Array Logic IC YWPD65654202.
Description of this IC is as follows:


138 VDD
137 DATA
136 SCK
135 INH1
134 INH0
133 CREQ
132 NRDY1
131 AUDIO
130 TEST0
129 TEST1
128 TEST2
127 TESTS
126 T11
125 T12
124 T13
123 NRDY0
122 BCTL2
121 D15
120 D14
119 D13
118 D12
117 D11
116 GND
115 VDD
114 D10
113 D9
112 D8
111 D7
110 D6
109 D5
108 GND
107 D4
106 D3
105 D2
104 D1
103 D0
102 CK28
101 HSYNC
100 VSYNC
99 ADS0
98 SDQ15
97 SDQ14
96 SDQ13
95 SDQ12
94 SDQ11
93 GND
GND 139
T10 140
T9 141
T8 142
T7 143
T6 144
T5 145
T4 146
T3 147
T2 148
T1 149
T0 150
FS256 151
FS64 152
FS 153
FS2 154
FS128 155
CH1CH3 156
CH2CH4 157
BCTL1 158
BCTL0 159
CMRQ 160
VDD 161
GND 162
ERR 163
CHRDY 164
IOW 165
IOR 166
JPEG0 167
JPEG1 168
OE 169
W 170
AD12 171
AD11 172
AD10 173
AD9 174
AD8 175
GND 176
AD7 177
AD6 178
AD5 179
AD4 180
AD3 181
AD2 182
AD1 183
VDD 184
92 VDD
91 SDQ10
90 SDQ9
89 SDQ8
88 SDQ7
87 SDQ6
86 GND
85 SDQ5
84 SDQ4
83 SDQ3
82 SDQ2
81 SDQ1
80 SDQ0
79 FRQ
78 BCTL9
77 NCWR
76 R1
75 R0
74 FORW
73 RESET
72 ST1
71 ST0
70 GND
69 VDD
68 LCIF
67 LCODE
66 BCTL10
65 NEXT
64 INIT
63 JVP
62 DQ15
61 DQ14
60 DQ13
59 DQ12
58 DQ11
57 DQ10
56 DQ9
55 GND
54 DQ8
53 DQ7
52 DQ6
51 DQ5
50 DQ4
49 DQ3
48 DQ2
47 GND
(TOP VIEW)
1 GND
2 AD0
3 RSTIN
4 INT
5 A4S
6 A3S
7 A2S
8 A1S
9 A0S
10 WR
11 RD
12 ACK1
13 IORD
14 DRQ1
15 ACK3
16 ACK2
17 DRQ3
18 DRQ2
19 CR
20 BCTL4
21 A0V
22 A1V
23 VDD
24 GND
25 A2V
26 A3V
27 A4V
28 A5V
29 DMGE
30 A6V
31 A7V
32 A8V
33 RAS0
34 RAS1
35 CAS0
36 CAS1
37 OE0
38 OE1
39 WE
40 SC0
41 SC1
42 SE0
43 SE1
44 DQ0
45 DQ1
46 VDD

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	AD0	O	AD signal output terminals. (13-Bit)
3	RSTIN	I	Reset Pulse input terminal.
4	INT	I	INT signal input terminal.
5	A4S	O	A4S signal output terminal.
6	A3S	O	A3S signal output terminal.
7	A2S	O	A2S signal output terminal.
8	A1S	O	A1S signal output terminal.
9	A0S	O	A0S signal output terminal.
10	WR	O	Write signal output terminal.
11	RD	O	Read signal output terminal.
12	ACK1	O	ACK1 signal output terminal.
13	IORD	O	IORD signal output terminal.

Pin	Name	I/O	Description
14	DRQ1	I	DRQ1 signal input terminal.
15	ACK3	O	ACK3 signal output terminal.
16	ACK2	O	ACK2 signal output terminal.
17	DRQ3	I	DRQ3 signal input terminal.
18	DRQ2	I	DRQ2 signal input terminal.
19	CR	O	CR signal output terminal.
20	BCTL4	O	BCTL4 signal output terminal.
21	A0V	O	A0V signal output terminal.
22	A1V	O	A1V signal output terminal.
23	VDD	–	Power supply terminal.
24	GND	–	Ground terminal.
25	A2V	O	A2V signal output terminal.
26	A3V	O	A3V signal output terminal.

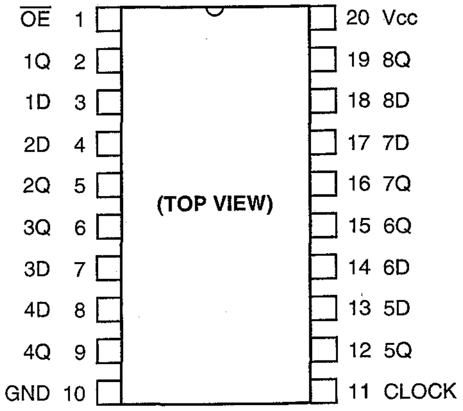
Pin	Name	I/O	Description
27	A4V	O	A4V signal output terminal.
28	A5V	O	A5V signal output terminal.
29	DMEG	O	DMEG signal output terminal.
30	A6V	O	A6V signal output terminal.
31	A7V	O	A7V signal output terminal.
32	A8V	O	A8V signal output terminal.
33	RAS0	O	Row Address Strobe signal output terminals.
34	RAS1	O	
35	CAS0	O	Column Address Strobe signal output terminals.
36	CAS1	O	
37	OE0	O	Output Enable signal output terminals.
38	OE1	O	
39	WE	O	Write Enable signal output terminal.
40	SC0	O	SC signal output terminals.
41	SC1	O	
42	SE0	O	SE signal output terminals.
43	SE1	O	
44	DQ0	I/O	Data input/output terminals. (16-Bit)
45	DQ1	I/O	
46	VDD	–	Power supply terminal.
47	GND	–	Ground terminal.
48	DQ2	I/O	Data input/output terminals. (16-Bit)
49	DQ3	I/O	
50	DQ4	I/O	
51	DQ5	I/O	
52	DQ6	I/O	
53	DQ7	I/O	
54	DQ8	I/O	
55	GND	–	Ground terminal.
56	DQ9	I/O	Data input/output terminals. (16-Bit)
57	DQ10	I/O	
58	DQ11	I/O	
59	DQ12	I/O	
60	DQ13	I/O	
61	DQ14	I/O	
62	DQ15	I/O	
63	JVP	O	JVP signal output terminal.
64	INIT	O	INIT signal output terminal.
65	NEXT	O	NEXT signal output terminal.
66	BCTL10	O	BCTL10 signal output terminal.
67	LCODE	I/O	LCODE signal input/output terminal.
68	LCIF	I	LCIF signal input terminal.
69	VDD	–	Power supply terminal.
70	GND	–	Ground terminal.
71	ST0	I	ST signal input terminals.
72	ST1	I	
73	RESET	O	Reset Pulse output terminal.
74	FORW	O	FORW signal output terminal.
75	R0	O	R signal output terminals.
76	R1	O	

Pin	Name	I/O	Description
77	NCWR	O	NCWR signal output terminal.
78	BCTL9	O	BCTL9 signal output terminal.
79	FRQ	I	FRQ signal input terminal.
80	SDQ0	I/O	S Data input/output terminals. (16-Bit)
81	SDQ1	I/O	
82	SDQ2	I/O	
83	SDQ3	I/O	
84	SDQ4	I/O	
85	SDQ5	I/O	
86	GND	–	Ground terminal.
87	SDQ6	I/O	S Data input/output terminals. (16-Bit)
88	SDQ7	I/O	
89	SDQ8	I/O	
90	SDQ9	I/O	
91	SDQ10	I/O	
92	VDD	–	Power supply terminal.
93	GND	–	Ground terminal.
94	SDQ11	I/O	S Data input/output terminals. (16-Bit)
95	SDQ12	I/O	
96	SDQ13	I/O	
97	SDQ14	I/O	
98	SDQ15	I/O	
99	ADS0	I	ADS0 signal input terminal.
100	VSYNC	I	Vertical Sync signal input terminal.
101	HSYNC	I	Horizontal Sync signal input terminal.
102	CK28	I	Clock Pulse input terminal.
103	D0	I/O	Data input/output terminals. (16-Bit)
104	D1	I/O	
105	D2	I/O	
106	D3	I/O	
107	D4	I/O	
108	GND	–	Ground terminal.
109	D5	I/O	Data input/output terminals. (16-Bit)
110	D6	I/O	
111	D7	I/O	
112	D8	I/O	
113	D9	I/O	
114	D10	I/O	
115	VDD	–	Power supply terminal.
116	GND	–	Ground terminal.
117	D11	I/O	Data input/output terminals. (16-Bit)
118	D12	I/O	
119	D13	I/O	
120	D14	I/O	
121	D15	I/O	
122	BCTL2	O	BCTL2 signal output terminal.
123	NRDY0	I	NRDY0 signal input terminal.
124	T13	I	T signal input terminals. (14-Bit)
125	T12	I	
126	T11	I	

Pin	Name	I/O	Description
127	TESTS	I	Test signal input terminals.
128	TEST2	I	
129	TEST1	I	
130	TEST0	I	
131	AUDIO	I	Audio signal input terminal.
132	NRDY1	I	NRDY1 signal input terminal.
133	CREQ	I/O	CREQ signal input/output terminal.
134	INH0	O	Inhibit signal output terminals.
135	INH1	O	
136	SCK	I	Serial Clock Pulse input terminal.
137	DATA	I	Serial Data input terminal.
138	VDD	–	Power supply terminal.
139	GND	–	Ground terminal.
140	T10	I	T signal input terminals. (14-Bit)
141	T9	I	
142	T8	I	
143	T7	I	
144	T6	I	
145	T5	I	
146	T4	I	
147	T3	I	
148	T2	I	
149	T1	I	
150	T0	I	
151	FS256	I	FS256 Pulse input terminal.
152	FS64	O	FS64 Pulse output terminal.
153	FS	O	FS Pulse output terminal.
154	FS2	O	FS2 Pulse output terminal.
155	FS128	O	FS128 Pulse output terminal.
156	CH1CH3	O	CH1CH3 signal input terminal.
157	CH2CH4	O	CH2CH4 signal input terminal.
158	BCTL1	O	BCTL1 signal output terminal.
159	BCTL0	O	BCTL0 signal output terminal.
160	CMRQ	O	CMRQ signal output terminal.
161	VDD	–	Power supply terminal.
162	GND	–	Ground terminal.
163	ERR	O	Error signal output terminal.
164	CHRDY	O	Channel Ready signal output terminal.
165	IOW	I	IOW signal intput terminal.
166	IOR	I	IOR signal input terminal.
167	JPEG0	I	JPEG0 signal input terminal.
168	JPEG1	I	JPEG1 signal input terminal.
169	OE	O	Output Enable signal output terminal.
170	W	O	W signal output terminal.
171	AD12	O	AD signal output terminals. (13-Bit)
172	AD11	O	
173	AD10	O	
174	AD9	O	
175	AD8	O	
176	GND	–	Ground terminal.

Pin	Name	I/O	Description
177	AD7	O	AD signal output terminals. (13-Bit)
178	AD6	O	
179	AD5	O	
180	AD4	O	
181	AD3	O	
182	AD2	O	
183	AD1	O	
184	VDD	–	Power supply terminal.

6.2. IC40 on the JPEG/SCSI-1 Board is using the Octal 3-State D-FFs IC YWMC74HC374AF. Description of this IC is as follows:



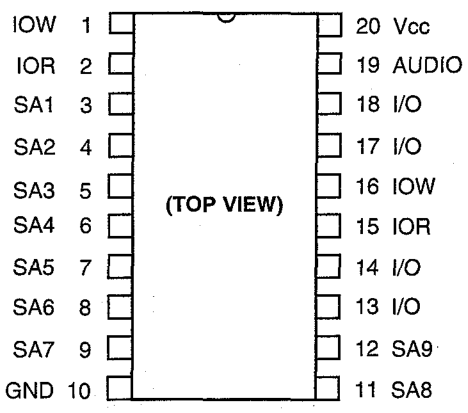
Truth Table

INPUTS			OUTPUT
$\overline{OE}$	D	CLOCK	Q
L	L	↑	L
L	H	↑	H
H	*	*	Z

* : Don't care.
Z : High Impedance

6.3. IC18 on the JPEG/SCSI-2 Board is using the Logic Control IC YW18CV8AV004.

Description of this IC is as follows:

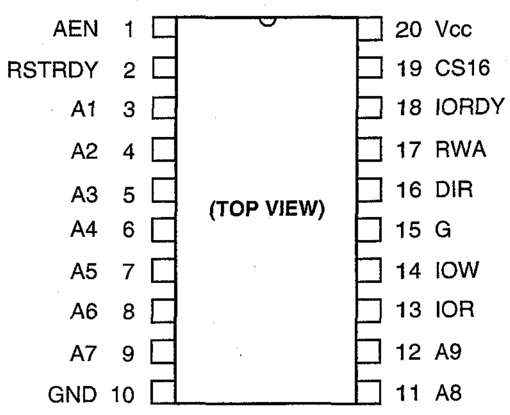

IOW 1
IOR 2
SA1 3
SA2 4
SA3 5
SA4 6
SA5 7
SA6 8
SA7 9
GND 10
20 Vcc
19 AUDIO
18 I/O
17 I/O
16 IOW
15 IOR
14 I/O
13 I/O
12 SA9
11 SA8
(TOP VIEW)

Pin	Name	I/O	Description
1	IOW	I	IOW signal input terminal.
2	IOR	I	IOR signal input terminal.
3	SA1	I	Address signal input terminals. (9-Bit)
4	SA2	I	
5	SA3	I	
6	SA4	I	
7	SA5	I	
8	SA6	I	
9	SA7	I	
10	GND	–	Ground terminal.
11	SA8	I	Address signal input terminals. (9-Bit)
12	SA9	I	
13	I/O	I/O	Control signal input/output terminals.
14	I/O	I/O	
15	IOR	O	IOR signal output terminal.
16	IOW	O	IOW signal output terminal.
17	I/O	I/O	Control signal input/output terminals.
18	I/O	I/O	
19	AUDIO	I	AUDIO signal input terminal.
20	Vcc	–	Power supply terminal.

7. I/F Board

7.1. IC4 on the I/F Board is using the Logic Control IC YW18CV8AV005.

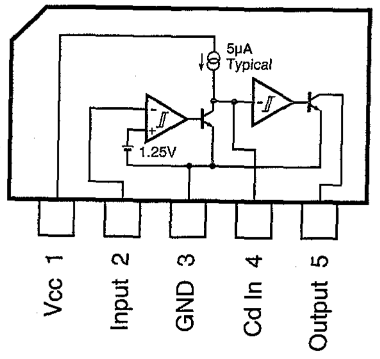
Description of this IC is as follows:

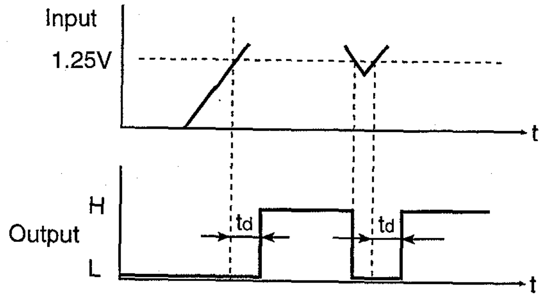

AEN 1
RSTRDY 2
A1 3
A2 4
A3 5
A4 6
A5 7
A6 8
A7 9
GND 10
20 Vcc
19 CS16
18 IORDY
17 RWA
16 DIR
15 G
14 IOW
13 IOR
12 A9
11 A8
(TOP VIEW)

Pin	Name	I/O	Description
1	AEN	I	Address Enable signal input terminal.
2	RSTRDY	I	RSTRDY signal input terminal.
3	A1	I	Address signal input terminals. (9-Bit)
4	A2	I	
5	A3	I	
6	A4	I	
7	A5	I	
8	A6	I	
9	A7	I	
10	GND	–	Ground terminal.
11	A8	I	Address signal input terminals. (9-Bit)
12	A9	I	
13	IOR	I	IOR signal input terminal.
14	IOW	I	IOW signal input terminal.
15	G	O	Gate signal output terminal.
16	DIR	O	Direct signal output terminal.
17	RWA	O	RWA signal output terminal.
18	IORDY	I	IORDY signal input terminal.
19	CS16	O	Chip Select signal output terminal.
20	Vcc	–	Power supply terminal.

8. Power Board

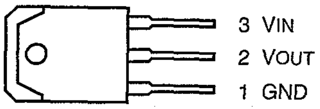
8.1. IC6 on the Power Board is using the Voltage Detector IC YWM51957BL.
Description of this IC is as follows:

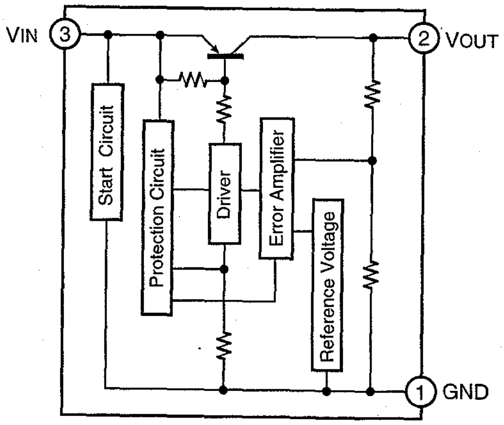

5μA
Typical
1.25V
Vcc 1
Input 2
GND 3
Cd In 4
Output 5



td ≈ 0.34 x Cd (pF) μsec.

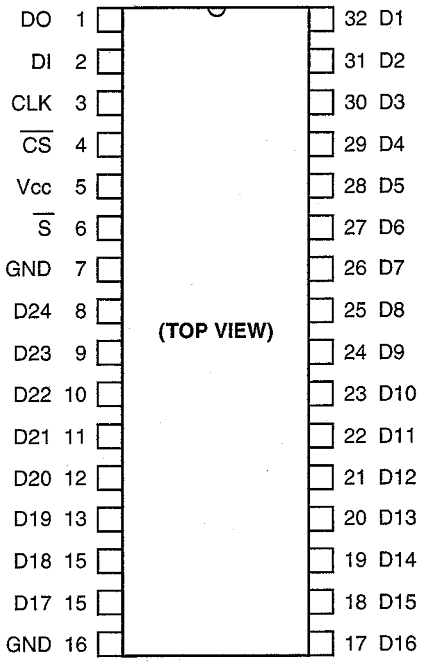
8.2. IC3 on the Power Board is using the Power Regulator IC YWSI3122V.
Description of this IC is as follows:


3 VIN
2 VOUT
1 GND

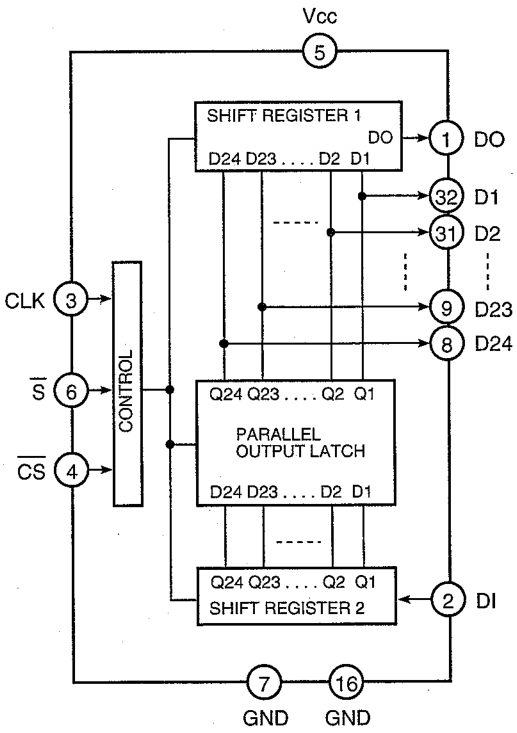

VIN
3
2
VOUT
Start Circuit
Protection Circuit
Driver
Error Amplifier
Reference Voltage
1
GND

9. Main Board (Jog Pad)

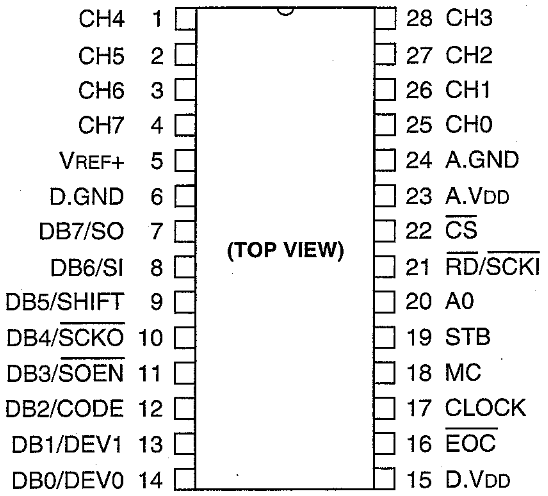
9.1. IC5 on the Main Board is using the 24-Bit I/O Expander IC YWM66010FP.
Description of this IC is as follows:


DO 1
DI 2
CLK 3
CS 4
Vcc 5
S 6
GND 7
D24 8
D23 9
D22 10
D21 11
D20 12
D19 13
D18 15
D17 15
GND 16
32 D1
31 D2
30 D3
29 D4
28 D5
27 D6
26 D7
25 D8
24 D9
23 D10
22 D11
21 D12
20 D13
19 D14
18 D15
17 D16
(TOP VIEW)

Pin	Name	I/O	Description
1	DO	O	Serial Data output terminal.
2	DI	I	Serial Data input terminal.
3	CLK	I	Clock Pulse input terminal.
4	$\overline{CS}$	I	Chip Select signal input terminal.
5	Vcc	–	Power supply terminal.
6	$\overline{S}$	I	Set signal output terminal.
7	GND	–	Ground terminal.
8	D24	I/O	Parallel Data input/output terminals. (24-Bit)
9	D23	I/O	
10	D22	I/O	
11	D21	I/O	
12	D20	I/O	
13	D19	I/O	
14	D18	I/O	
15	D17	I/O	
16	GND	–	Ground terminal.
17	D16	I/O	Parallel Data input/output terminals. (24-Bit)
18	D15	I/O	
19	D14	I/O	
20	D13	I/O	
21	D12	I/O	
22	D11	I/O	
23	D10	I/O	
24	D9	I/O	
25	D8	I/O	
26	D7	I/O	
27	D6	I/O	
28	D5	I/O	
29	D4	I/O	
30	D3	I/O	
31	D2	I/O	
32	D1	I/O	

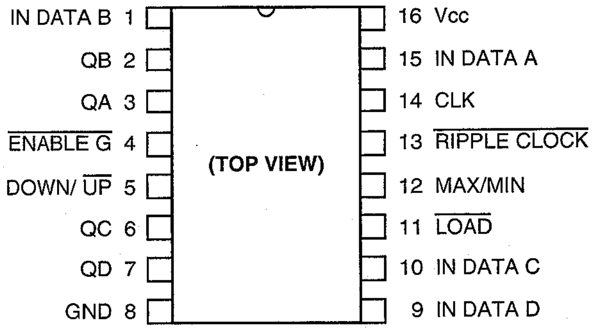

Vcc
5
SHIFT REGISTER 1
DO
D24 D23 . . . . D2 D1
1 DO
32 D1
31 D2
9 D23
8 D24
CLK 3
S 6
CS 4
CONTROL
Q24 Q23 . . . . Q2 Q1
PARALLEL OUTPUT LATCH
D24 D23 . . . . D2 D1
Q24 Q23 . . . . Q2 Q1
SHIFT REGISTER 2
2 DI
7
16
GND
GND

9.2. IC9 on the Main Board is using the 10-Bit A/D Converter IC YWUPD7004C.
Description of this IC is as follows:


CH4 1
CH5 2
CH6 3
CH7 4
VREF+ 5
D.GND 6
DB7/SO 7
DB6/SI 8
DB5/SHIFT 9
DB4/SCKO 10
DB3/SOEN 11
DB2/CODE 12
DB1/DEV1 13
DB0/DEV0 14
(TOP VIEW)
28 CH3
27 CH2
26 CH1
25 CH0
24 A.GND
23 A.VDD
22 CS
21 RD/SCKI
20 A0
19 STB
18 MC
17 CLOCK
16 EOC
15 D.VDD

Pin	Name	I/O	Description
1	CH4	I	Analog signal CH4 input terminal.
2	CH5	I	Analog signal CH5 input terminal.
3	CH6	I	Analog signal CH6 input terminal.
4	CH7	I	Analog signal CH7 input terminal.
5	VREF+	I	Positive Reference Voltage input terminal.
6	D.GND	–	Ground terminal for Digital circuit.
7	DB7/SO	O	Data Bus (MSB) output terminal or Serial Data output terminal.
8	DB6/SI	O/I	Data Bus output terminal or Serial Data input terminal.
9	DB5/SHIFT	O/I	Data Bus output terminal or Leading Bit (MSB/LSB) Selecting signal input terminal.
10	DB4/$\overline{\text{SCKO}}$	O I/O	Data Bus output terminal or Serial Clock Pulse input/output terminal.
11	DB3/$\overline{\text{SOEN}}$	O I/O	Data Bus output terminal or Serial Output Enable signal input/output terminal.
12	DB2/CODE	O/I	Data Bus output terminal or Code Selection signal input terminal.
13	DB1/DEV1	O/I	Data Bus output terminal or Frequency Divider Ratio Setting signal input terminal.
14	DB0/DEV0	O/I	Data Bus (LSB) output terminal or Frequency Divider Ratio Setting signal input terminal.
15	D.VDD	–	Power supply terminal for Digital circuit.
16	$\overline{\text{EOC}}$	O	End of Conversion signal output terminal.
17	CLOCK	I	Clock Pulse input terminal.
18	MC	I	Mode Selection signal input terminal. H = Parallel mode; L = Serial mode
19	STB	I	Write signal input terminal or Address Write Strobe signal input terminal.
20	A0	I	Control Address signal input terminal or Internal/External Clock Pulse Selection signal input terminal.
21	$\overline{\text{RD/SCKI}}$	I	Read signal input terminal or Serial Clock Pulse input terminal.
22	$\overline{\text{CS}}$	I	Chip Select signal input terminal.
23	A.VDD	–	Power supply terminal for Analog circuit.
24	A.GND	–	Ground terminal for Analog circuit.
25	CH0	I	Analog signal CH0 input terminal.
26	CH1	I	Analog signal CH1 input terminal.
27	CH2	I	Analog signal CH2 input terminal.
28	CH3	I	Analog signal CH3 input terminal.

9.3. IC7 on the Main Board is using the Presettable Synchronous Up/Down Binary Counter IC YWSN74 HC191NS.
Description of this IC is as follows:


IN DATA B 1
QB 2
QA 3
ENABLE G 4
DOWN/UP 5
QC 6
QD 7
GND 8
(TOP VIEW)
16 Vcc
15 IN DATA A
14 CLK
13 RIPPLE CLOCK
12 MAX/MIN
11 LOAD
10 IN DATA C
9 IN DATA D

Truth Table

INPUTS				OUTPUTS			Function
$\overline{\text{Load}}$	D/$\overline{\text{U}}$	CLK	Enable $\overline{\text{G}}$	QA QB QC QD	Ripple Clock	Max Count	
H	L	↑	L	——	–	–	Count Up
H	H		L	——	–	–	Count Down
⊔	∗	∗	∗	DA DB DC DD	–	–	Data Set
∗	L	⊔	L	H H H H	⊔	⊓	–
∗	L	∗	∗		H		
∗	H	⊔	L	L L L L	⊔	⊓	–
∗	H	∗	∗		H		

∗ : Don't care.

■ Hard Disk Drive Replacement

- Remove the Front Panel by using the Front Panel remove button.

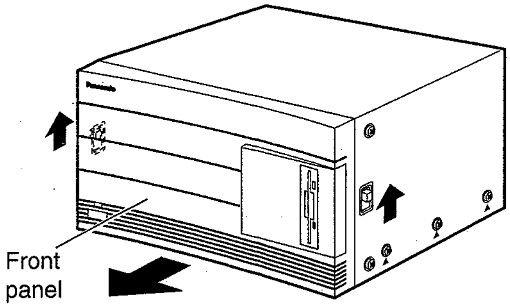

Front
panel

Fig 1

- Remove 4 screws fixing the Front Chassis and remove the Front Chassis.

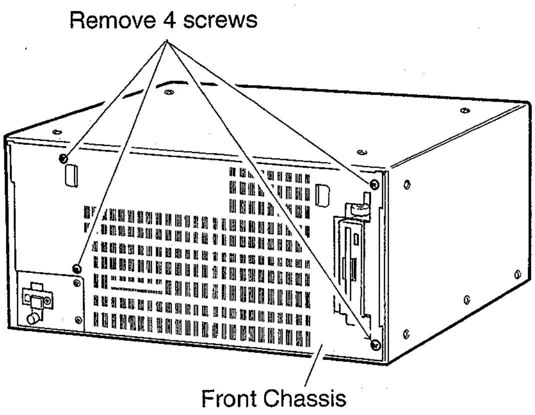

Remove 4 screws
Front Chassis

Fig 2

- Remove 4 screws fixing the Upper Cover and remove the Upper Cover.

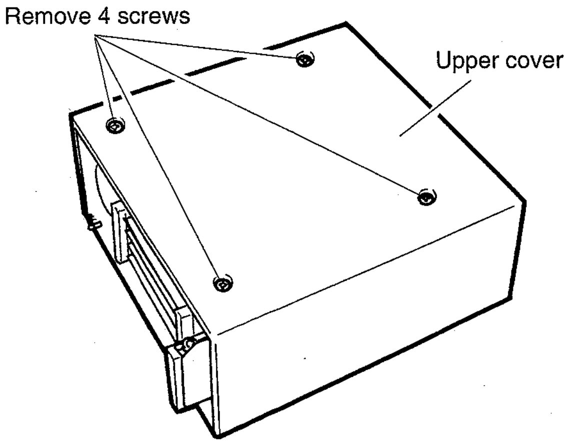

Remove 4 screws
Upper cover

Fig 3

- Remove 4 screws fixing the 2 Plates and remove the 2 Plates.

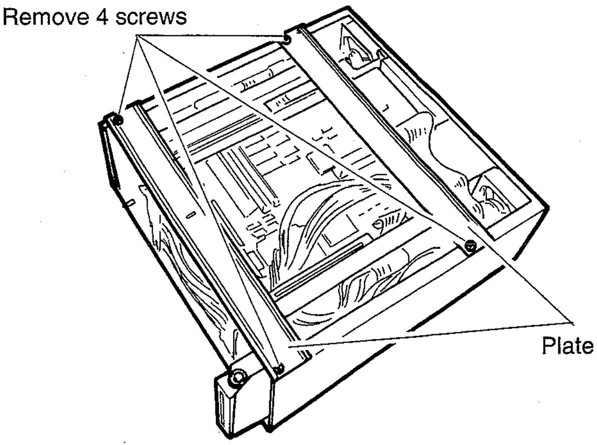

Remove 4 screws
Plate

Fig 4

- Remove 5 screws fixing the Side Panel and remove the Side Panel.

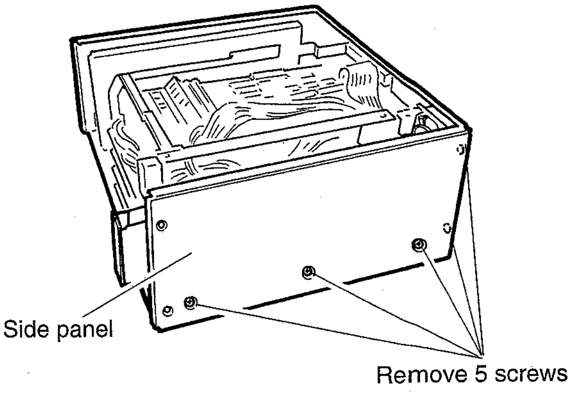

Side panel
Remove 5 screws

Fig 5

- Disconnect 4-pin and 40-pin connectors on the Hard Disk Drive.

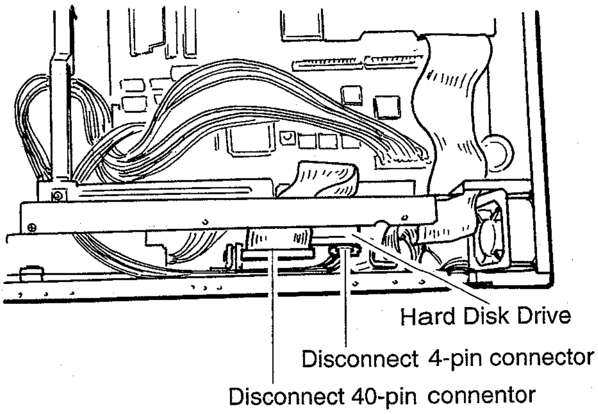

Hard Disk Drive
Disconnect 4-pin connector
Disconnect 40-pin connentor

Fig 6

- Remove 3 screws fixing the Side Chassis and slide the Side Chassis in the direction of arrow.

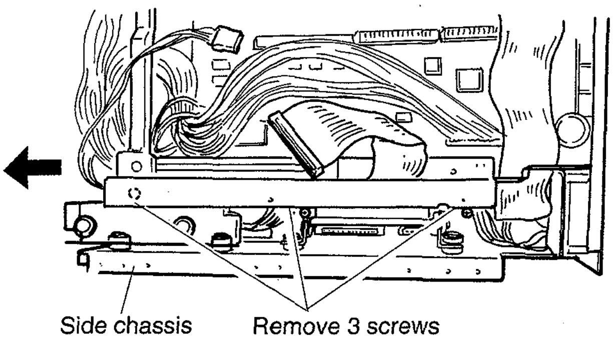

Side chassis
Remove 3 screws

Fig 7

- Disconnect 4-pin and 34-pin connectors on the Floppy Disk Drive and remove the Side Chassis.

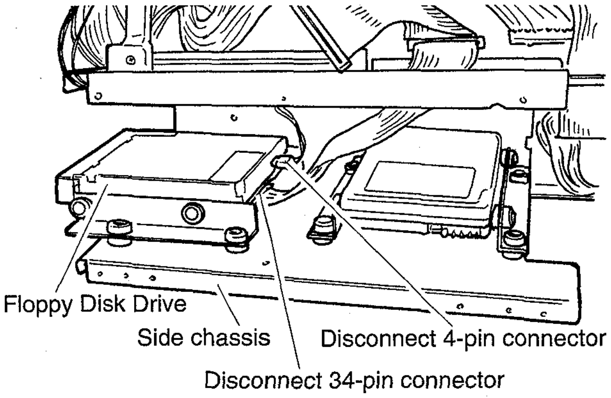

Floppy Disk Drive
Side chassis
Disconnect 4-pin connector
Disconnect 34-pin connector

Fig 8

- Remove 4 screws fixing the Hard Disk Drive and replace the Hard Disk Drive to new one.

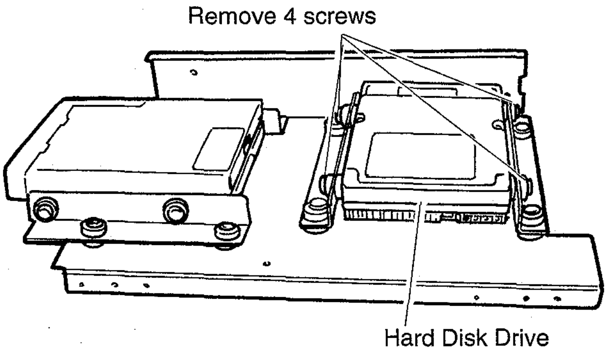
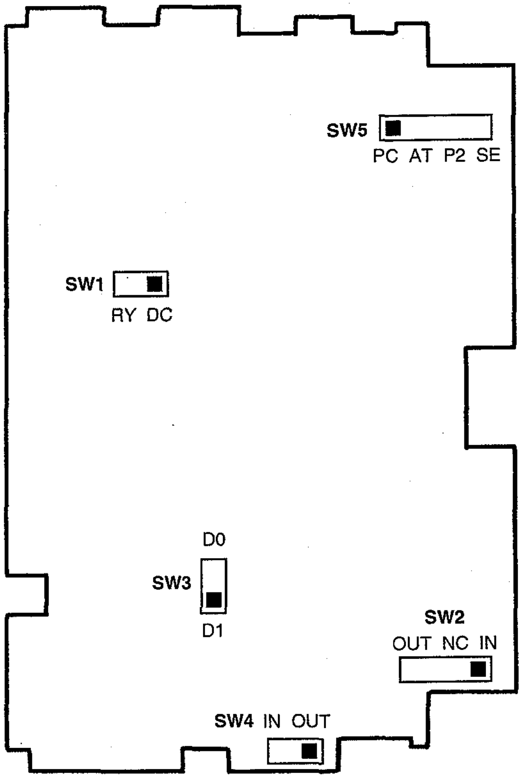

Remove 4 screws
Hard Disk Drive

Fig 9

- After replacing the Hard Disk Drive, assemble the main unit in the reverse order of disassembly.

■ Switch Setting of Floppy Disk Drive

When replacing the Floppy Disk Drive to new one, set the switches to the following positions.


SW5
PC AT P2 SE
SW1
RY DC
D0
SW3
D1
SW2
OUT NC IN
SW4 IN OUT

ADJUSTMENT PROCEDURE

1. Test Equipment Required

- The following test Equipments are required for adjustment of the Nonlinear AV Workstation Main Kit WJ-MX1000K.
- Oscilloscope
- Frequency Counter
- Digital Voltmeter
- Waveform Monitor
- Vectorscope (with SC-H Function)
- Underscanned Colour Video Monitor
- Test Signal Generator (Colour Bar signal, Ramp signal and etc.)
- Extension Board (YWVOEA0356AN) for WJ-MX1000K

2. Disassembling Procedure for Adjustment

■ WJ-MX1000K

- Referring to Fig. 2-1, release both Lock Levers that secure the Front Panel and remove the Front Panel.

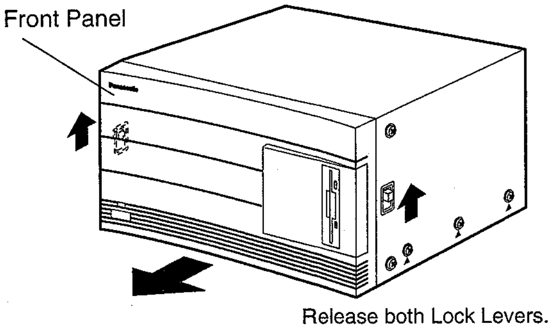

Front Panel
Release both Lock Levers.

Fig. 2-1

- Referring to Fig.2-2, remove 4 screws fixing the Front chassis and remove the Front chassis.

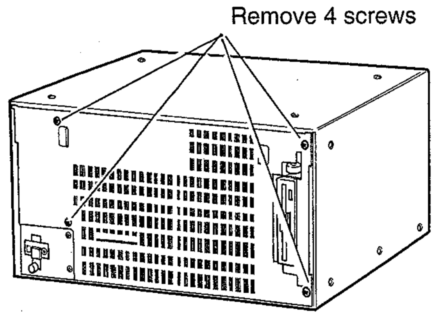

Remove 4 screws

Fig. 2-2

■ Jog Pad

- Referring to Fig. 2-3, remove five screws that secure the Bottom Cover and remove the Bottom Cover.

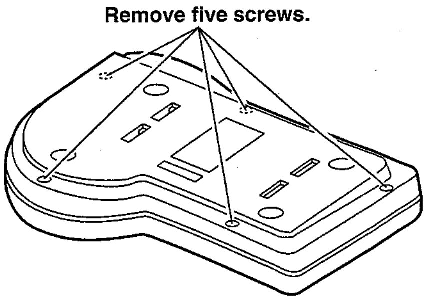

Remove five screws.

Fig. 2-3

3. Connection for Adjustment

- The Fig. 3-1 shows the connection diagram for the adjustment procedure.

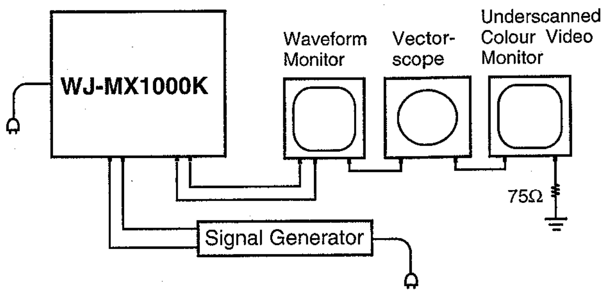

WJ-MX1000K
Waveform Monitor
Vector-scope
Underscanned Colour Video Monitor
75Ω
Signal Generator

Fig. 3-1

- Connect the Underscanned Colour Video Monitor through the Waveform Monitor and Vectorscope to either Y/C Video Output Connector or Composite Video Output Connector on the Rear Panel of the WJ-MX1000K.
- Terminate the input terminal of the Underscanned Colour Video Monitor with 75 Ω.
- Connect the probe of the Digital Voltmeter, Oscilloscope or Frequency Counter at the desired Test Point in each adjustment step.
- The adjustment should be done after 10 minutes warm-up.

4. Adjustment Procedure

- Refer to the Location of the Test Points and Adjusting Controls on page 110.

■ Power Board

1. Power Good Signal Adjustment

Test Point:	**Pin 2 of CN3 (5V)**	**Power Board**
	Pin 1 of CN3 (P-GOOD)	**Power Board**
Adjust:	**VR1 (4.85V)**	**Power Board**
	VR3 (P-GOOD)	**Power Board**

- Connect the Digital Voltmeter to the pin 2 of CN3.
- Adjust VR1 to obtain 4.85V DC.
- Change the connection of the Digital Voltmeter to the pin 1 of CN3.
- Adjust VR3 so that the Power Good Signal level just changes from Low level to High level.
- Confirm that the changing point should be between 4.8V DC and 4.9V DC by adjusting of VR1.

2. 5V Adjustment

Test Point:	**TP5 (5V)**	**Mixer Board**
Adjust:	**VR1 (5V)**	**Power Board**

- Connect the Digital Voltmeter to TP5 on the Mixer Board.
- Adjust VR1 to obtain 5 ± 0.02V DC.

3. 12V Adjustment

Test Point:	**TP3 (12V)**	**Mixer Board**
Adjust:	**VR2 (12V)**	**Power Board**

- Connect the Digital Voltmeter to TP3 on the Mixer Board.
- Adjust VR2 to obtain 12 ± 0.05V DC.

■ Mixer Board

4. Subcarrier Frequency Adjustment

Test Point:	**TP6 (FSC)**	**Mixer Board**
Adjust:	**VR202 (FSC)**	**Mixer Board**

- Connect the Frequency Counter to TP6.
- Adjust VR202 to obtain 17.734525 MHz ± 5 Hz.

5. Ach VCO Adjustment

Test Point:	**TP1 (Ach VCO)**	**Mixer Board**
Adjust:	**L8 (Ach VCO)**	**Mixer Board**

- Executes the Manual Digitizer and set to the Recording mode.
- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Digital Voltmeter to TP1.
- Adjust L8 to obtain 2.1 ± 0.1V DC.

6. Bch VCO Adjustment

Test Point:	**TP2 (Bch VCO)**	**Mixer Board**
Adjust:	**L16 (Bch VCO)**	**Mixer Board**

- Set the SW1 and SW2 on the Pattern Side of the MIxer Board are as shown in Fig. 3-1.

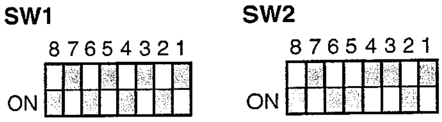


Fig. 3-1

- Executes the Manual Digitizer and set the Recording mode.
- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Digital Voltmeter to TP2.
- Adjust L16 to obtain 2.1 ± 0.1V DC.
- After completion of adjustment, set the SW1 and SW2 as shown in Fig. 3-2.

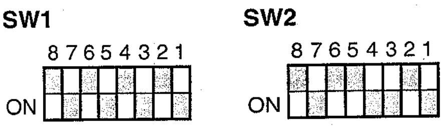


Fig. 3-2

■ Before starting next steps, executes the Sequence Editor, then plays the Still Image of the Colour Bar (Setup = 0) by drag & drop the Colour Bar Eyecon to the Sequence Editor.

7. Output Y Gain Adjustment

Test Point:	**Video Out Y Connector**	**Rear Panel**
Adjust:	**VR701 (Y GAIN)**	**Mixer Board**

- Connect the terminated oscilloscope with 75Ω to the Video Out Y Connector.
- Adjust VR701 so that the Y Level of the internal Colur Bar signal becomes 700 ± 7mV as shown in Fig. 3-3.

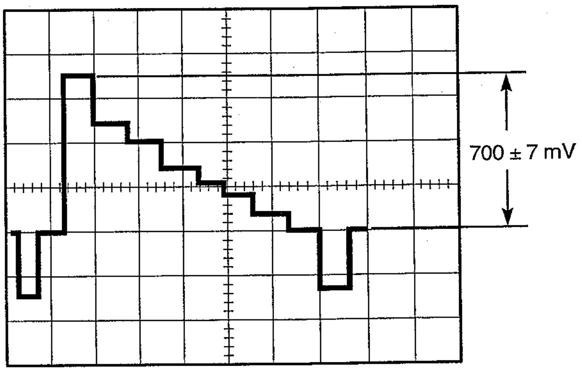


Fig. 3-3

8. Output PB Gain Adjustment

Test Point: **Video Out PB Connector** **Rear Panel**
Adjust: **VR704 (PB GAIN)** **Mixer Board**

- Connect the terminated Oscilloscope with 75Ω to the Video Out PB Connector.

- Adjust VR704 so that the PB signal level of the build-in Colour Bar signal (Setup = 0) becomes 525 mV as shown in Fig. 3-4.

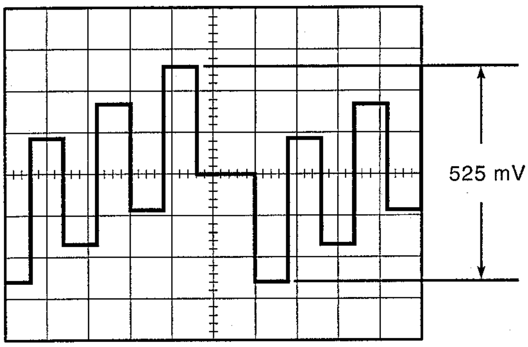


Fig. 3-4

9. Output PR Gain Adjustment

Test Point: **Video Out PR Connector** **Rear Panel**
Adjust: **VR705 (PR GAIN)** **Mixer Board**

- Connect the terminated Oscilloscope with 75Ω to the Video Out PR Connector.
- Adjust VR705 so that the PR signal level (p-p) of the build-in Colour Bar signal (Setup = 0) becomes 525 mV as shown in Fig. 3-5.

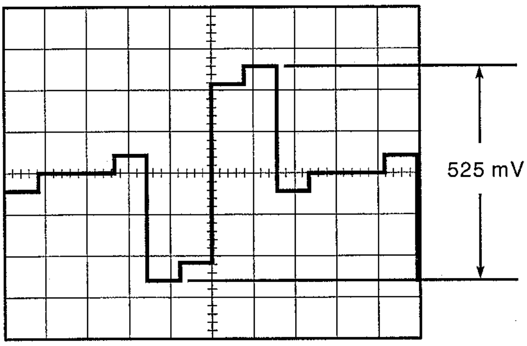


Fig. 3-5

10. Output C Gain Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR703 (C GAIN)** **Mixer Board**

- Connect the Vectorscope to the Video Out Y/C Connector.
- Adjust VR703 so that the Chrominance Gain and Phase are adjusted to proper position (± 3%, 3°) as shown in Fig. 3-6.

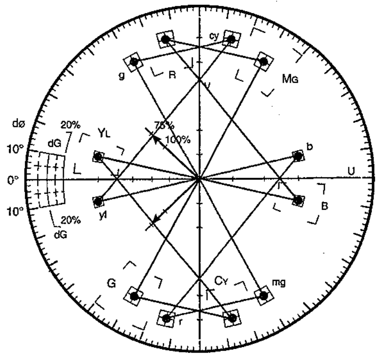


Fig. 3-6

11. Composite Y Gain Adjustment

Test Point: **Video Out Composite Connector**
Rear Panel
Adjust: **VR702 (COMP Y)** **Mixer Board**

- Connect the terminated oscilloscope with 75Ω to the Video Out Composite Connector.
- Adjust VR702 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-7.

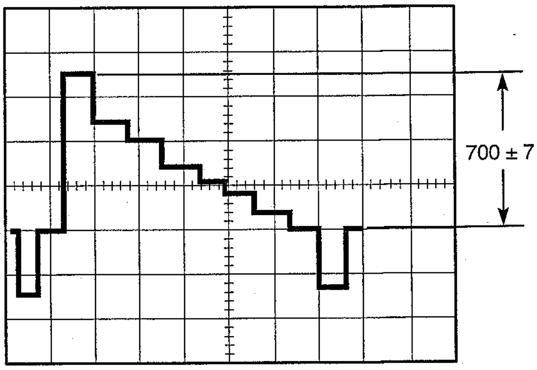


Fig. 3-7

12. Output C Gain Adjustment

Test Point: **Video Out Composite Connector**
Rear Panel
Adjust: **VR706 (COMP C)** **Mixer Board**

- Connect the Vectorscope to the Video Out Y/C Connector.
- Adjust VR706 so that the Chrominance Gain and Phase are adjusted to proper position (± 3%, 3°) as shown in Fig. 3-8.

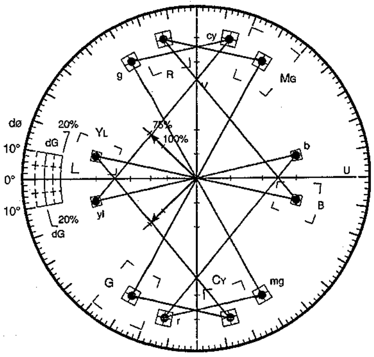


Fig. 3-8

13. Output SC-H Adjustment

Test Point: **Video Out Composite Connector** **Rear Panel**

Adjust: **VR707 (SC-H)** **Mixer Board**

- Connect the Vectorscope (with SC-H function) to the Video Out Y/C Connector.
- Adjust VR707 so that the SC-H Phase becomes 0 ± 5°.

14. ADV. REF. SC-H Adjustment

Test Point: **ADV. REF. Out Connector** **Rear Panel**

Adjust: **VR708 (ADV.REF.)** **Mixer Board**

- Connect the Vectorscope (with SC-H function) to the ADV. REF. Out Connector.
- Adjust VR708 so that the SC-H Phase becomes 0 ± 5°.

■ Input Board

■ **Before starting adjustment of the Input Board, executes the executes Manual Digitizer, set the Recording mode.**

15. FVCXO1 Frequency Adjustment

Test Point: **TP202 (FVCXO1)** **Input Board**

Adjust: **CT201 (FVCXO1)** **Input Board**

- Disconnect all input from the WJ-MX1000K.
- Connect the Frequency Counter to TP202.
- Adjust CT201 to obtain 4.433624 MHz ± 5 Hz.

16. FVCXO2 Frequency Adjustment

Test Point: **TP206 (FVCXO2)** **Input Board**

Adjust: **CT202 (FVCXO2)** **Input Board**

- Disconnect all input from the WJ-MX1000K.
- Connect the Frequency Counter to TP206.
- Adjust CT202 to obtain 4.433624 MHz ± 5 Hz.

17. Component Carrier Balance Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**

Adjust: **VR222 (COMP CAR BAL-1)** **Input Board**
VR224 (COMP CAR BAL-2) **Input Board**

- Select the CH1-Component Input by the Device setting, and supply the Colour Bar signal to the Component Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Set the mode selection switch on the vectorscope to NTSC mode.
- Set the Gain Control of the Vectorscope to the maximum.
- Adjust VR222 and VR224 so that the vector positions at the center of the Vectorscope as shown in Fig. 3-9.

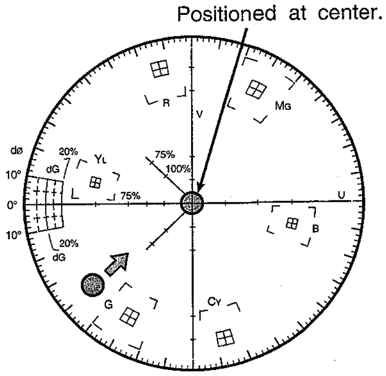


Fig. 3-9

- Set the Gain Control of the Vectorscope to the normal.

18. Pedestal Level Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**

Adjust: **VR219 (PED)** **Input Board**

- Select the CH1-Component Input by the Device setting, and supply the Ramp signal to the Component Input Connector of CH1.
- Connect the Terminated Oscilloscope with 75Ω to the Video Out Y/C Connector.
- Adjust VR219 so that the Pedestal signal level becomes 0 $^{+7}_{-0}$ as shown in Fig. 3-10.

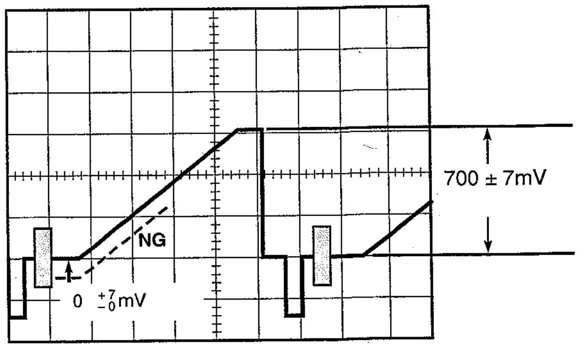


Fig. 3-10

19. Component Y Gain Adjustment

Test Point: Video Out Y/C Connector Rear Panel
Adjust: VR218 (COMP Y GAIN) Input Board

- Connect the terminated oscilloscope with 75Ω to the Video Out Y/C Connector.
- Adjust VR218 so that the Y signal level becomes 700 ± 7mV as shown in Fig. 3-11.

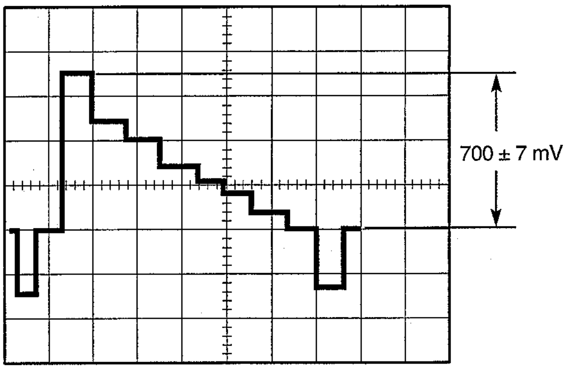


Fig. 3-11

- Confirm that the Pedestal level stays same level,
- If not repeat steps 18 and 19 until they are satisfied.

20. Component Y Gain Adjustment

Test Point: Video Out PR Connector Rear Panel
Video Out PB Connector Rear Panel
Adjust: VR216 (COMP C GAIN-1) Input Board
VR217 (COMP C GAIN-2) Input Board

- Supply PR Colur Bar signal (525 mV) and PB Clour Bar signal (525 mV)to the Video In PB Connector and Video In PR connector.
- Connect the Oscilloscope to the Video Out PR Connector.
- Adjust VR216 and VR217 so that the output signal level becomes same level as input signal.
- Change the connection of the Oscilloscope to the Video Out PB Connector.
- Adjust VR216 and VR217 so that the output signal level becomes same level as input signal.
- Repeat above adjustment until both PR and PB output signals become same level as PR and PB input signals.

21. Horizontal Phase Adjustment

Test Point: Video Out Y/C Connector Rear Panel
Adjust: VR220 (H-PHASE) Input Board

- Select the CH1-Y/C Input by the Device setting, and supply the Cross-hatch signal to the Y/C Video Input Connector of CH1.
- Connect the Oscilloscope to the Video Output terminal of the Signal Generator, then measure the Horizontal Phase "t" as shown in the Fig. 3-12.

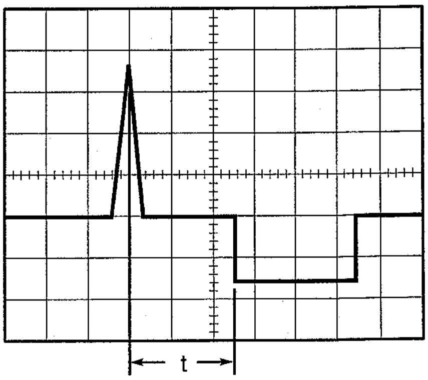


Fig. 3-12

- Change the connection of the Oscilloscope to the Y terminal of the Video Out Y/C Connector.
- Adjust VR220 so that the Horizontal Phase becomes t ± 70 ns.

22. Burst Gate Pulse Width 1 Adjustment

Test Point: TP211 (BGP-1) Input Board
Adjust: VR202 (BGP-1) Input Board

- Select the CH1-Composite Input by the Device setting, and supply the Colour Bar signal to the Composite Video Input Connector of CH1.
- Connect the Oscilloscope to TP211.
- Adjust VR202 so that the Burst Gate Pulse Width becomes 8.4 μs as shown in Fig. 3-13.

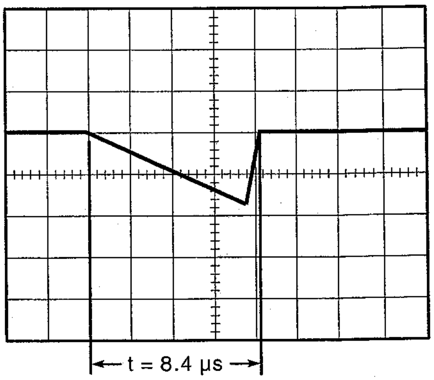


Fig. 3-13

23. Burst Gate Pulse Width 2 Adjustment

Test Point: TP205 (BGP-2) Input Board
Adjust: VR207 (BGP-2) Input Board

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Oscilloscope to TP205.
- Adjust VR207 so that the Burst Gate Pulse Width becomes 8.4 µs as shown in Fig. 3-14.

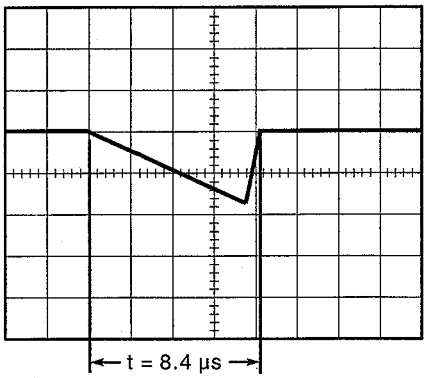


Fig. 3-14

24. Y/C Carrier Balance Adjustment

Test Point: Video Out Y/C Connector Rear Panel
Adjust: VR211 (Y/C CAR BAL-1) Input Board
VR225 (Y/C CAR BAL-2) Input Board

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Set the mode selection switch on the vectorscope to NTSC mode.
- Set the Gain Control of the Vectorscope to the maximum.
- Adjust VR211 and VR225 so that the vector positions at the center of the Vectorscope as shown in Fig. 3-15.

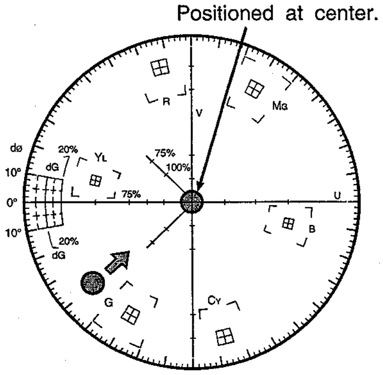


Fig. 3-15

25. Y/C Y Gain Adjustment

Test Point: Video Out Y/C Connector Rear Panel
Adjust: VR221 (Y/C Y GAIN) Input Board

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the terminated Oscillloscope with 75Ω to the Video Out Y/C Connector.
- Adjust VR221 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-18.

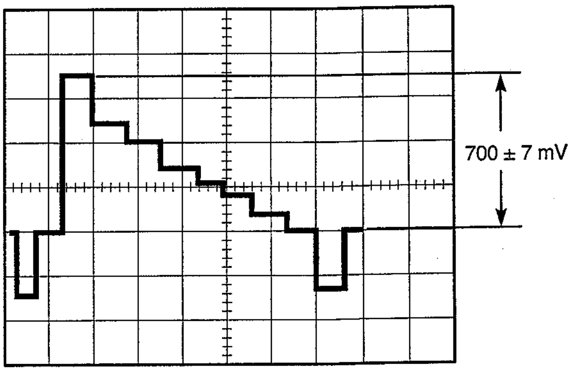


Fig. 3-16

26. Y/C Chrominance Adjustment

Test Point: Video Out Y/C Connector Rear Panel
Adjust: VR208 (Y/C R-Y GAIN) Input Board
VR210 (Y/C B-Y GAIN) Input Board
VR209 (TINT) Input Board

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Aim the Red vector, adjust VR208 so that the Red vector becomes proper position.
- Aim the Yellow vector, adjust VR210 so that the Yellow vector becomes proper position.
- Aim the Red vector, adjust VR209 so that the Red vector becomes proper position.
- Repeat adjustment VR208, VR210 and VR209 so that the Chrominance Gain and Phase are adjusted to proper position as shown in Fig. 3-17.

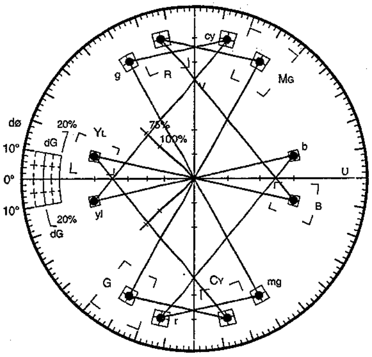


Fig. 3-17

27. Y/C Separation Gain Adjustment

Test Point: **TP201 (Y/C SEPA GAIN)** **Input Board**

Adjust: **VR201 (Y/C SEPA GAIN)** **Input Board**

- Select the CH1-Composite Input by the Device setting, and supply the Ramp (Chroma 300mV) signal to the Composite Input Connector of CH1.
- Connect the Oscilloscope to TP201.
- Adjust VR201 so that the Y/C Separation signal becomes 1.8 ± 0.05 V as shown in Fig. 3-18.

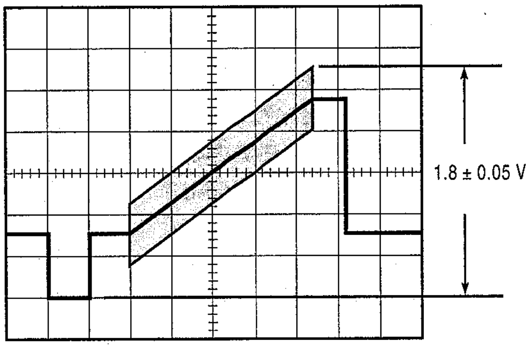


Fig. 3-18

28. Composite Y Gain Adjustment

Test Point: **Video Out Composite Connector**
Rear Panel

Adjust: **VR205 (COMP Y-GAIN)** **Input Board**

- Select the CH1-Composite Input by the Device setting, and supply the Colour Bar signal to the Composite Input Connector of CH1.
- Connect the terminated oscilloscope with 75Ω to the Video Out Y/C Connector.
- Adjust VR205 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-19.

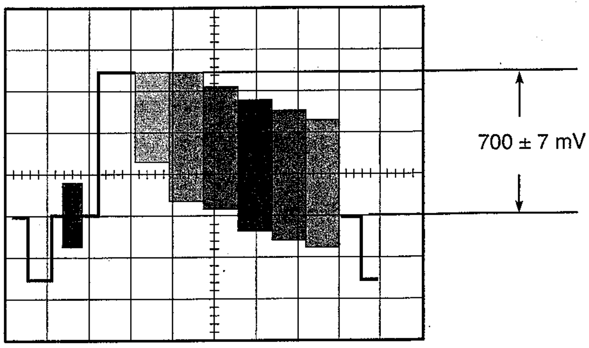


Fig. 3-19

■ Jog pad

■ **Before starting to adjustment of the Jog Pad, remove the Bottom Cover, connect supplied cable between the Jog Pad and WJ-MX1000K.**

29. Wipe High Level Adjustment

Test Point: **TP2 (WIPE H)** **Main Board**
TP3 (WIPE L) **Main Board**

Adjust: **VR3 (WIPE H)** **Main Board**

- Move the Wipe Level Controls key and Audio Level Knob to + side (forward) slightly.
- Connect the Digital Voltmeter to TP3 and measure the voltage at TP3 (this voltage is E).
- Change the connection of the Digital Voltmeter to TP2.
- Adjust VR3 so that the voltage at TP2 becomes E – (0.2 ± 0.05) V.

29. Wipe High Level Adjustment

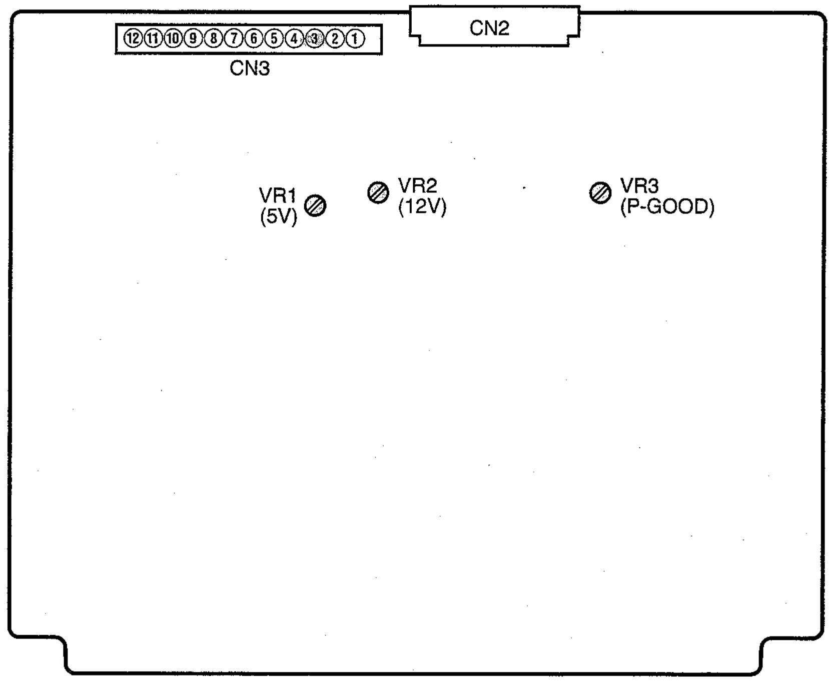
Test Point: **TP3 (WIPE L)** **Jog Pad Board**

Adjust: **VR4 (WIPE L)** **Jog pad Board**

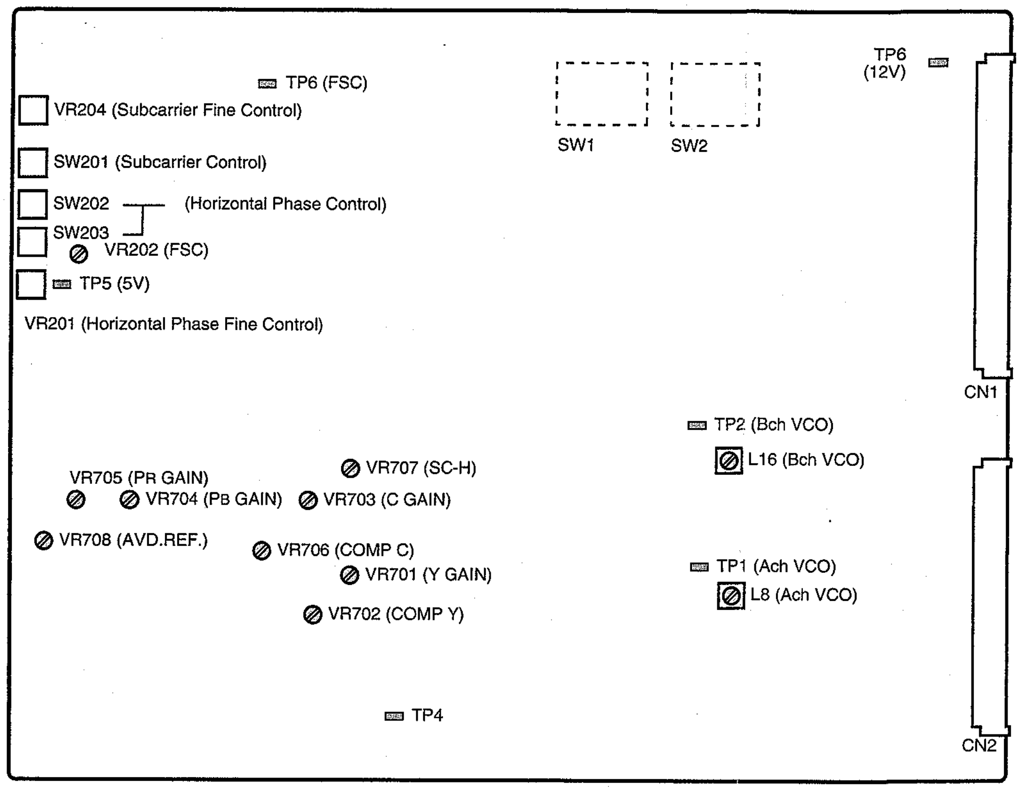
- Move the Wipe Level Controls key and Audio Level Knob to the backward slightly.
- Connect the Digital Voltmeter to TP3.
- Adjust VR4 to obtain –0.2 ± 0.05 V.

LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

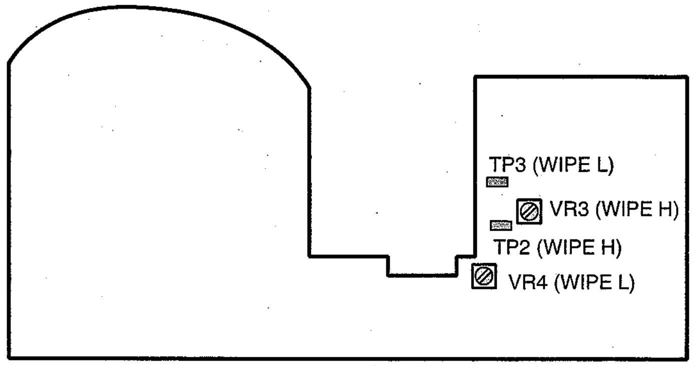
POWER BOARD (COMPONENT SIDE)


⑫⑪⑩⑨⑧⑦⑥⑤④③②①
CN3
CN2
VR1 (5V)
VR2 (12V)
VR3 (P-GOOD)

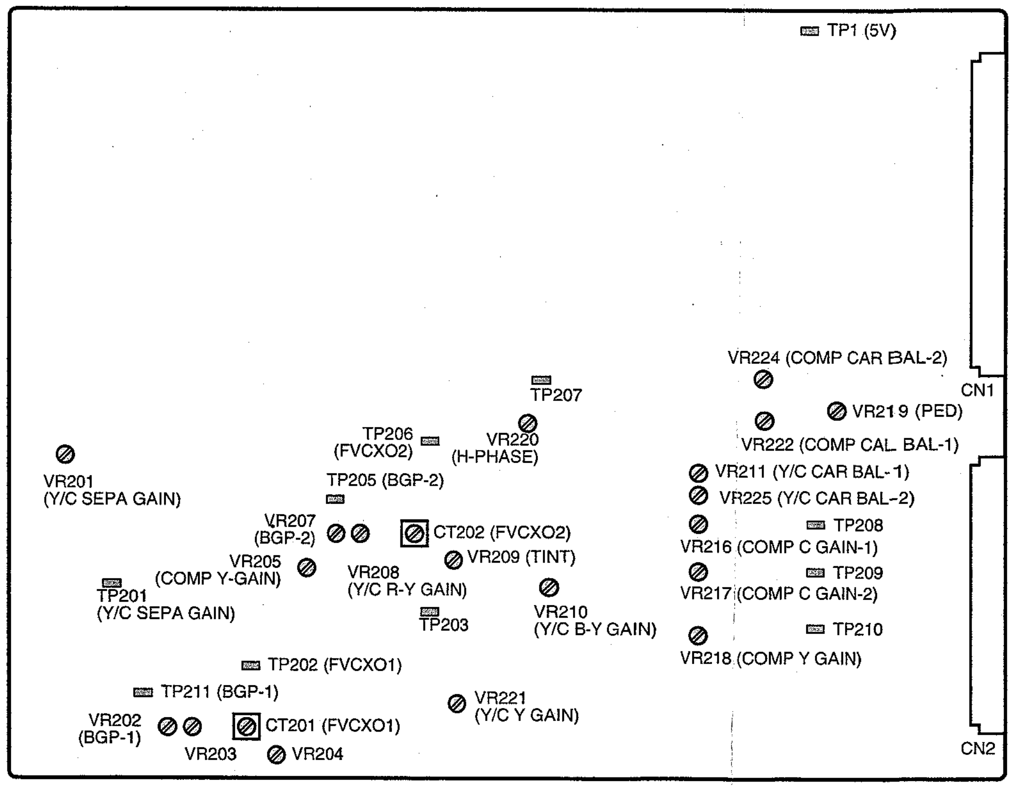
MIXER BOARD (COMPONENT SIDE)


TP6 (FSC)
VR204 (Subcarrier Fine Control)
SW201 (Subcarrier Control)
SW202
SW203
(Horizontal Phase Control)
VR202 (FSC)
TP5 (5V)
VR201 (Horizontal Phase Fine Control)
SW1
SW2
TP6 (12V)
CN1
TP2 (Bch VCO)
L16 (Bch VCO)
VR705 (PR GAIN)
VR707 (SC-H)
VR704 (PB GAIN)
VR703 (C GAIN)
VR708 (AVD.REF.)
VR706 (COMP C)
VR701 (Y GAIN)
VR702 (COMP Y)
TP1 (Ach VCO)
L8 (Ach VCO)
TP4
CN2

MAIN BOARD (PATTERN SIDE)

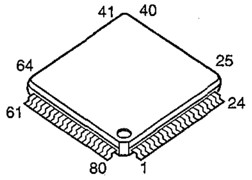

TP3 (WIPE L)
VR3 (WIPE H)
TP2 (WIPE H)
VR4 (WIPE L)

INPUT BOARD (COMPONENT SIDE)


TP1 (5V)
VR224 (COMP CAR BAL-2)
CN1
TP207
VR219 (PED)
TP206 (FVCXO2)
VR220 (H-PHASE)
VR222 (COMP CAL BAL-1)
VR201 (Y/C SEPA GAIN)
TP205 (BGP-2)
VR211 (Y/C CAR BAL-1)
VR225 (Y/C CAR BAL-2)
VR207 (BGP-2)
CT202 (FVCXO2)
TP208
VR216 (COMP C GAIN-1)
VR205 (COMP Y-GAIN)
VR209 (TINT)
TP201 (Y/C SEPA GAIN)
VR208 (Y/C R-Y GAIN)
TP209
VR217 (COMP C GAIN-2)
TP203
VR210 (Y/C B-Y GAIN)
TP210
VR218 (COMP Y GAIN)
TP202 (FVCXO1)
TP211 (BGP-1)
VR221 (Y/C Y GAIN)
VR202 (BGP-1)
CT201 (FVCXO1)
VR203
VR204
CN2

APPEARANCE OF IC, TRANSISTOR AND DIODE

YWCXD2105AQ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80
1

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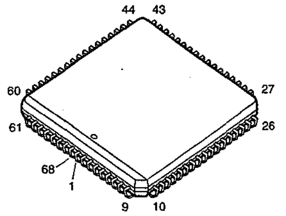
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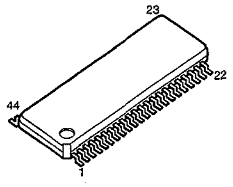

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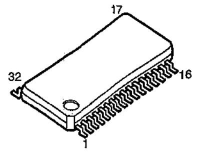

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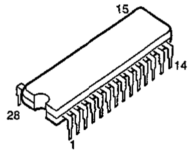

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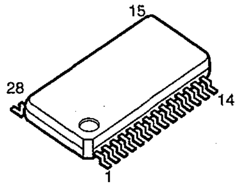

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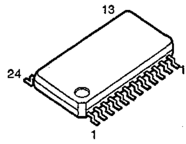

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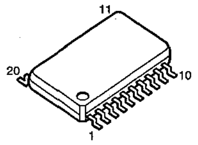
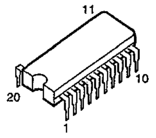
MC74HC754AF
YWMC74AC541F
MC74HC245AF
YWSC7S00F



YW18CV8AV002
YW18CV8AV005



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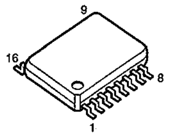
YWM5M34050FP
YWMC74HC175F
YWMC74AC157M
YWMC74AC08M



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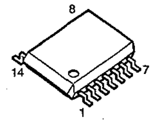

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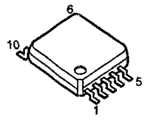

YWM51953BFP
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YWNJM2235M
YWNJM2246M

YFNJM311M
YWCXA1211M
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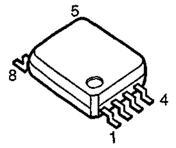
YWFA5304P



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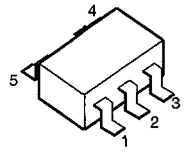
YWSC7S32FER
YWSC7SU04F
YWSC7S08F



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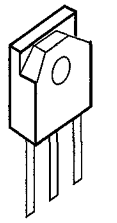

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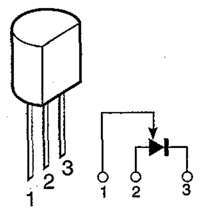

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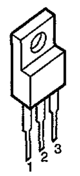
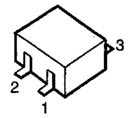
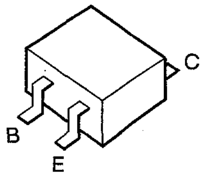


1: Input
2: Ground
3: Output

2SK198-Q



MSB709-QRS
MSD601-QRS



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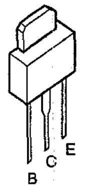

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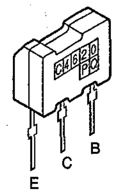
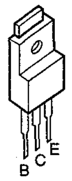
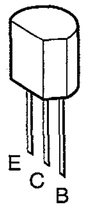


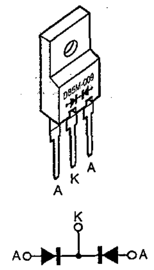
2SB1290
2SD1833



2SC1740



YWESAD92M02
YWESAD83M006



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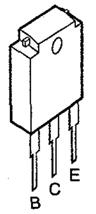
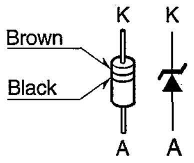
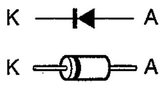


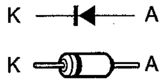
YWS2L60


Brown
Black
K
K
A
A

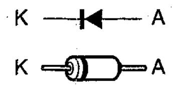
YWERA1506
YWERA3804



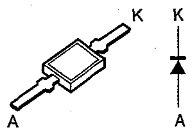
YWRD9.1JB2



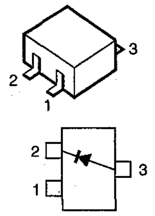
MA165



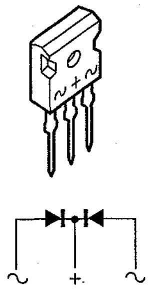
1SV153



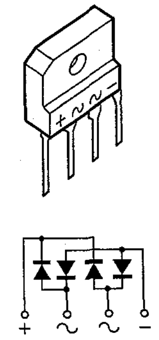
YWDAN212K



YWS60SC6M



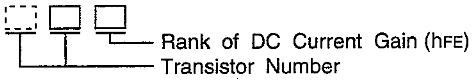
YWD10XB60H



CHIP COMPONENTS

1. Chip Transistor

The transistor number is indicated on the top surface of the chip transistor using two alphabet letters or one numerical number and two alphabet letters.



Transistor Number

(Chip Transistor)

Letter	Transistor No.	Letter	Transistor No.
A	2SB709	X	2SD602A
B	2SB709A	Y	2SD601
C	2SB710	Z	2SD601A
D	2SB710A	1A	2SB799
E	2SA1022	1B	2SB814
F	2SA1034	1C	2SB902
H	2SA1035	1F	2SK321
I	2SB792	1K	2SK316
K	2SC2778	1L	2SK247
P	2SD814	1M	2SJ84
Q	2SD813	1N	2SK199
R	2SC2480	1O	2SK198
S	2SC2405	1T	2SC3077
T	2SC2406	1X	2SC2845
U	2SC2404	1Z	2SD1030
V	2SC2295	2B	2SK374
W	2SD602	2C	2SK116
BQ	2SB766A	UMT	2SC4081

(Small Chip Transistor) (Pair Transistor)

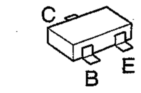
Letter	Transistor No.
A	2SB1218
B	2SB1218A
D	2SB1219A
U	2SC3931
W	2SD1820
X	2SD1820A
Y	2SD1819
E3	2SA1226
OS	2SB1219
UC	2SA1532
YU	2SC3938

Letter	Transistor No.	Letter	Transistor No.
5R	XN1501	5H	XP4501
7S	XN1601	5C	XP4601
5H	XN4501	5H	XP4501
5C	XN4601	5L	XP5501
5L	XN5501	4N	XP5601
4N	XN5601	7S	XP6501
5N	XN6501	7W	XP6435
7W	XN6435	7F	XP6534
7F	XN6534	X1	UMX1
5R	XP1501	Z1	UMZ1
7S	XP1601		

Example:
WQ → 2SD602-Q
YQ → 2SD601-Q
1BS → 2SB814-S

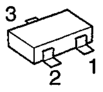
Appearance and Symbols

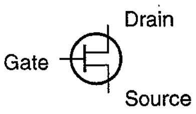
Transistor



C: Collector
B: Bass
E: Emitter

FET

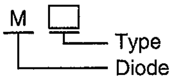




	1	2	3
Eacept 2SK199	Drain	Source	Gate
2SK199	Gate	Drain	Source

2. Chip Diode

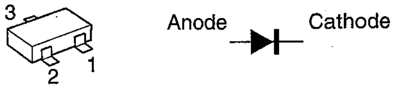
The diode number is indicated on the top surface of the chip diode using two alphabet letters.



Diode Number

	1	2	3
MA28/MA28W/MA28T	–	Anode	Cathode
MA151K/MA152K	–	Anode	Cathode
MA151A/MA152A	–	Cathode	Anode
MA151WK/MA152WK	Anode	Anode	Cathode
MA151WA/MA152WA	Cathode	Cathode	Anode
MA153	Cathode	Anode	Common
MA141K	–	Anode	Cathode
MA143	Anode	Cathode	Common
MA3062	Anode	–	Cathode
RD421D	Anode	–	Cathode

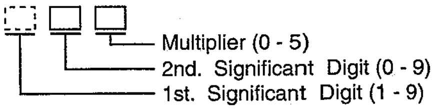
Appearance and Symbol



	1	2	3
MA28/MA28W/MA28T	–	Anode	Cathode
MA151K/MA152K	–	Anode	Cathode
MA151A/MA152A	–	Cathode	Anode
MA151WK/MA152WK	Anode	Anode	Cathode
MA151WA/MA152WA	Cathode	Cathode	Anode
MA153	Cathode	Anode	Common
MA141K	–	Anode	Cathode
MA143	Anode	Cathode	Common
MA3062	Anode	–	Cathode
RD421D	Anode	–	Cathode

3. Chip Resistor

The resistor value is indicated on the bottom surface of the chip resistor using three digit numbers.


Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Significant Digit (1 - 9)

Example:
330 → $33 \times 10^0 = 33\ \Omega$
561 → $56 \times 10^1 = 560\ \Omega$
123 → $12 \times 10^3 = 12\ \mathrm{k}\Omega$

Note: Zero ohm resistor (jumper chip) is colored red or green.

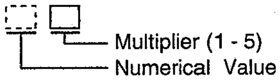
4. Chip Capacitor

The capacitive value of replacement chip capacitors is indicated on the bottom surface. original parts do not have value indication.
If the capacitive value is less than 100 pF, the value will be indicated by one or two digit number expressing the capacity directly in pF.

Example:

0.5 → 0.5 pF　　2.5 → 2.5 pF
.75 → 0.75 pF　　33 → 33 pF
1 → 1 pF　　82 → 82 pF

If the capacitive value is 100 pF or greater, the value will be indicated by an alpha-numeric code. The letter precedes the number and expresses a numerical value to be multiplied by the number which follows.



Numerical Value

Letter	Value	Letter	Value
A	10	N	33
B	11	P	36
C	12	Q	39
D	13	R	43
E	15	S	47
F	16	T	51
G	18	U	56
H	20	V	62
J	22	W	68
K	24	X	75
L	27	Y	82
M	30	Z	91

* Letters I and O are not used.

Example: A1 → $10 \times 10^1 = 100$ pF
N2 → $33 \times 10^2 = 3300$ pF
S3 → $47 \times 10^3 = 47000$ pF

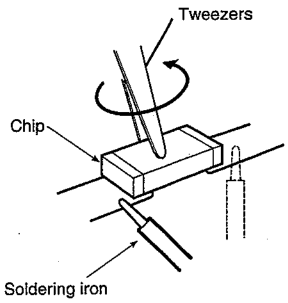
5. Precautions in replacing the chip component

1. Make sure that the unit is turned OFF when replacing the chip.
2. Use tweezers to prevent any damage to the chip surface.
3. Do not re-use the chips after removal.
4. Do not rub the electrode of chips.
5. Do not subject the chips to excessive stress.
6. It is recommended that a pencil-type soldering iron to be used.
7. The solder whose diameter is less than 0.5 mm is recommended.
8. Do not heat the chip beyond 3 second.
9. Maintain temperature control under 260°C (500°F) when soldering.

5-1. Removal (Transistor, Diode, Resistor and Capacitor)

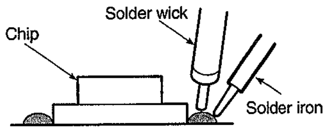
1. Add the solder to both ends of the chip (three leads for chip transistor).
2. While attaching the soldering iron to both ends of the chip (three leads for chip transistor) as shown below, remove the chip by turning with tweezers.

Note: Be careful not to damage other chips.

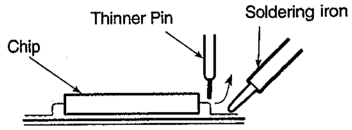


5-2. Removal (IC)

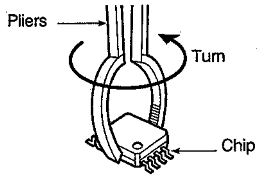
1. Add the solder wick and soldering iron to each lead of the IC and remove solder.



2. Add the soldering iron to each lead of the IC and left each lead of the IC using thinner pin.

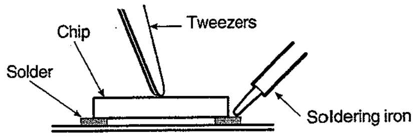


3. Remove IC turning it with pliers.

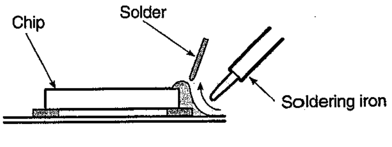


5-3. Mounting

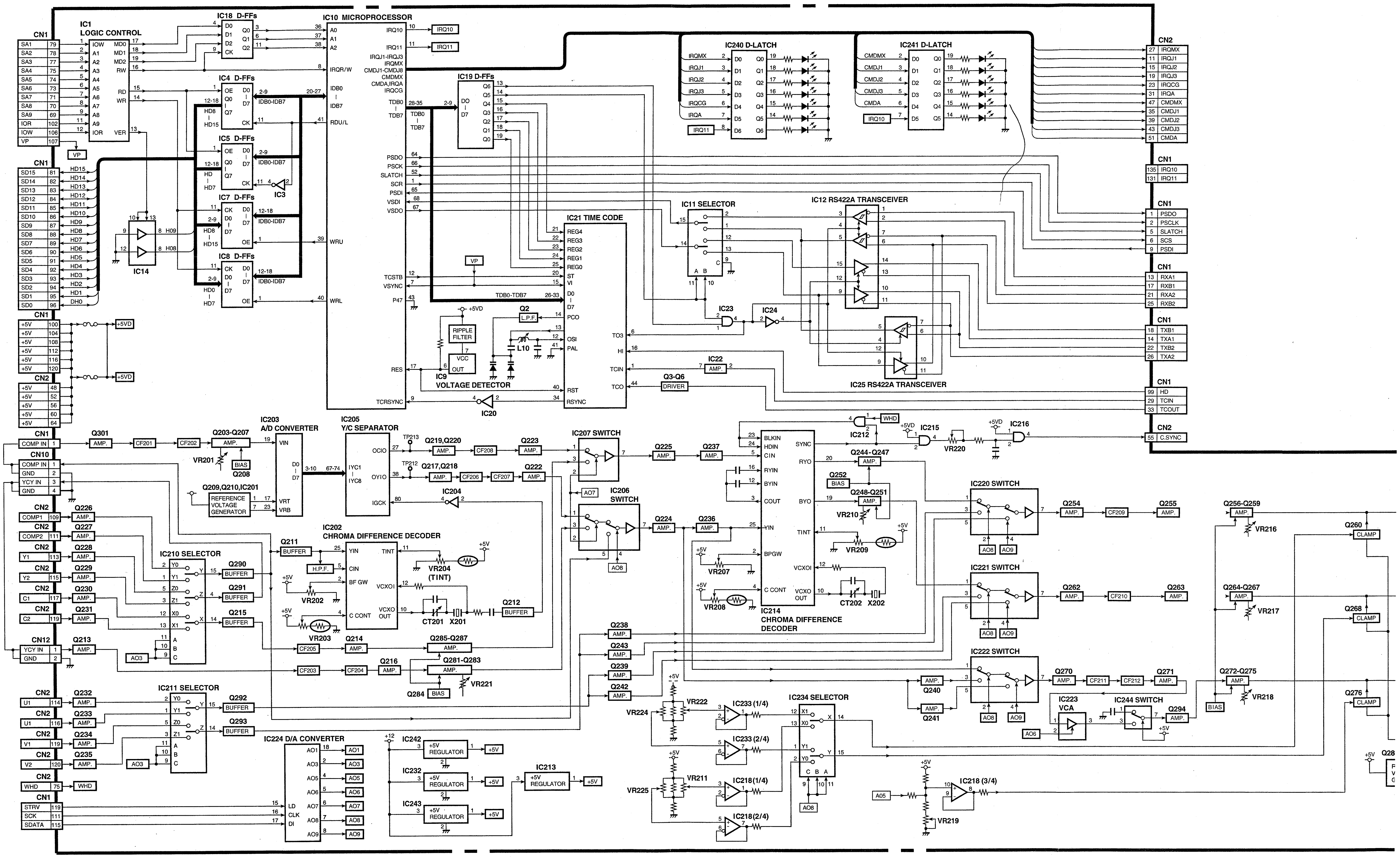
1. Place the solder thinly on the chip mounting foil.
2. Solder the chip temporarily while holding the chip with the tweezers.



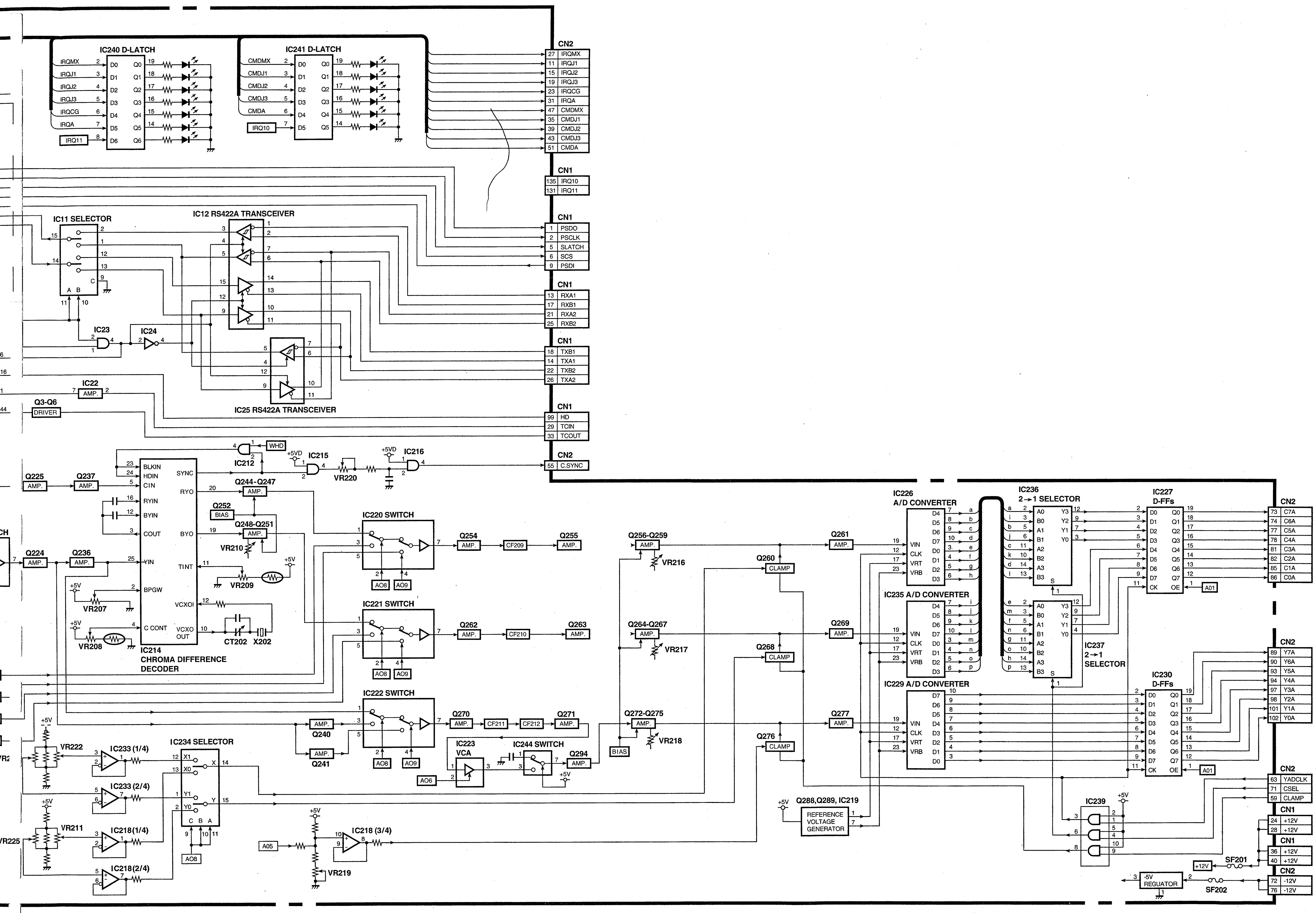
3. Solder both ends of chip (three leads for chip transistor).



BLOCK DIAGRAM OF INPUT BOARD

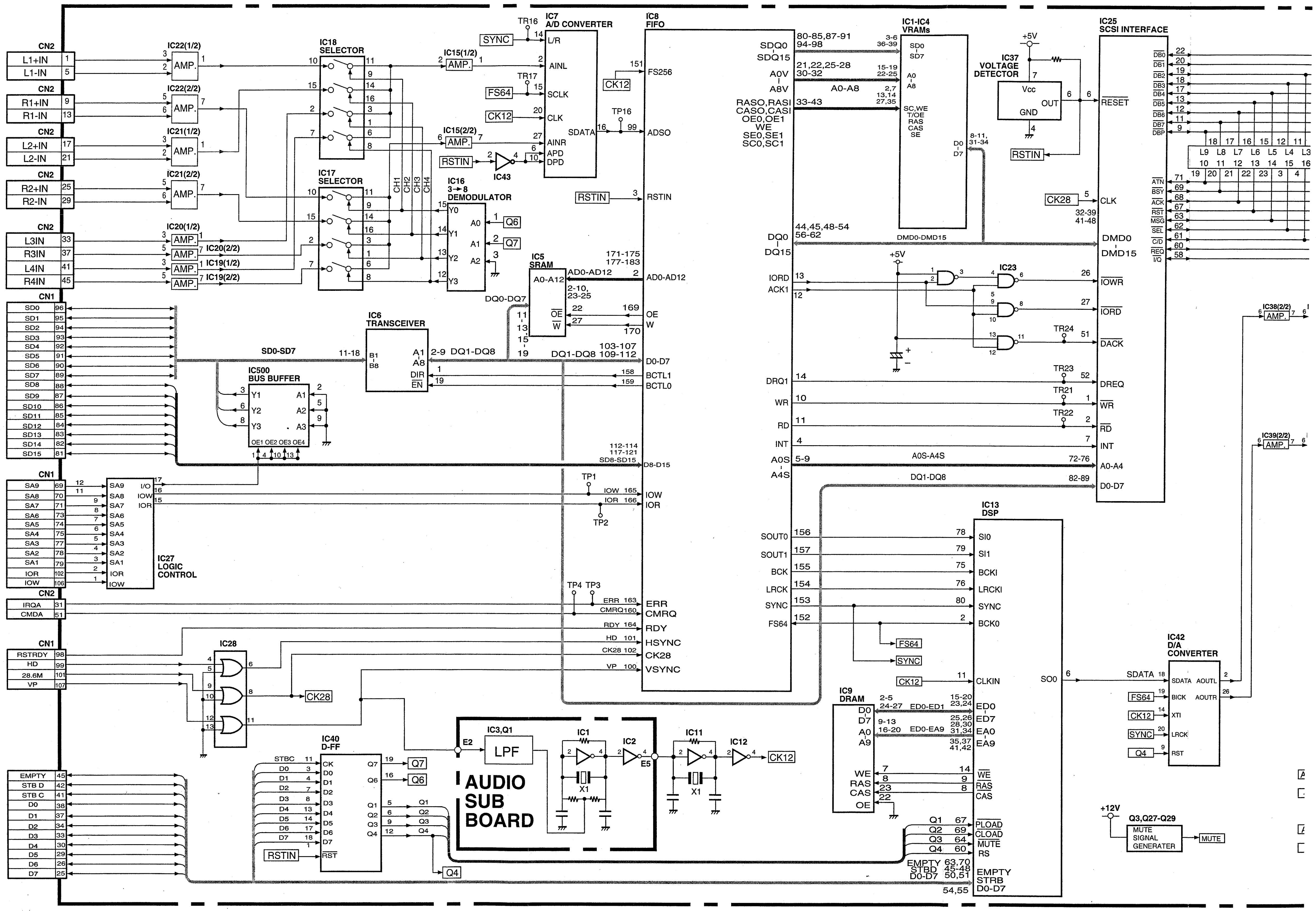

CN1
IC1 LOGIC CONTROL
IC18 D-FFs
IC10 MICROPROCESSOR
IC4 D-FFs
IC5 D-FFs
IC7 D-FFs
IC8 D-FFs
IC3
IC14
IC19 D-FFs
IC240 D-LATCH
IC241 D-LATCH
CN2
IC11 SELECTOR
IC12 RS422A TRANSCEIVER
IC21 TIME CODE
IC23
IC24
IC22
IC25 RS422A TRANSCEIVER
Q2
L.P.F.
L10
RIPPLE FILTER
IC9 VOLTAGE DETECTOR
Q3-Q6
DRIVER
IC20
+5VD
CN10
CN12
IC203 A/D CONVERTER
IC205 Y/C SEPARATOR
Q301
CF201
CF202
Q203-Q207
VR201
BIAS
Q208
Q209,Q210,IC201
REFERENCE VOLTAGE GENERATOR
Q219,Q220
Q217,Q218
CF208
CF206
CF207
Q223
Q222
IC204
IC207 SWITCH
IC206 SWITCH
Q225
Q237
Q224
Q236
IC212
IC215
IC216
VR220
Q244-Q247
Q252
Q248-Q251
VR210
VR209
IC214 CHROMA DIFFERENCE DECODER
VR207
VR208
CT202
X202
IC220 SWITCH
IC221 SWITCH
IC222 SWITCH
Q254
CF209
Q255
Q262
CF210
Q263
Q270
CF211
CF212
Q271
Q256-Q259
VR216
Q264-Q267
VR217
Q272-Q275
VR218
Q260
Q268
Q276
CLAMP
IC202 CHROMA DIFFERENCE DECODER
Q211
H.P.F.
VR204 (TINT)
VR202
VR203
CT201
X201
Q212
IC210 SELECTOR
Q226
Q227
Q228
Q229
Q230
Q231
Q290
Q291
Q215
Q213
Q214
CF205
Q285-Q287
Q281-Q283
VR221
Q216
CF203
CF204
Q284
Q238
Q243
Q239
Q242
VR222
VR224
IC233 (1/4)
IC233 (2/4)
IC234 SELECTOR
VR211
VR225
IC218(1/4)
IC218(2/4)
IC218 (3/4)
VR219
Q240
Q241
IC223 VCA
IC244 SWITCH
Q294
IC211 SELECTOR
Q232
Q233
Q234
Q235
Q292
Q293
IC224 D/A CONVERTER
IC242 +5V REGULATOR
IC232 +5V REGULATOR
IC243 +5V REGULATOR
IC213 +5V REGULATOR
AO1
AO3
AO5
AO6
AO7
AO8
AO9
WHD
STRV
SCK
SDATA

BLOCK DIAGRAM OF INPUT BOARD

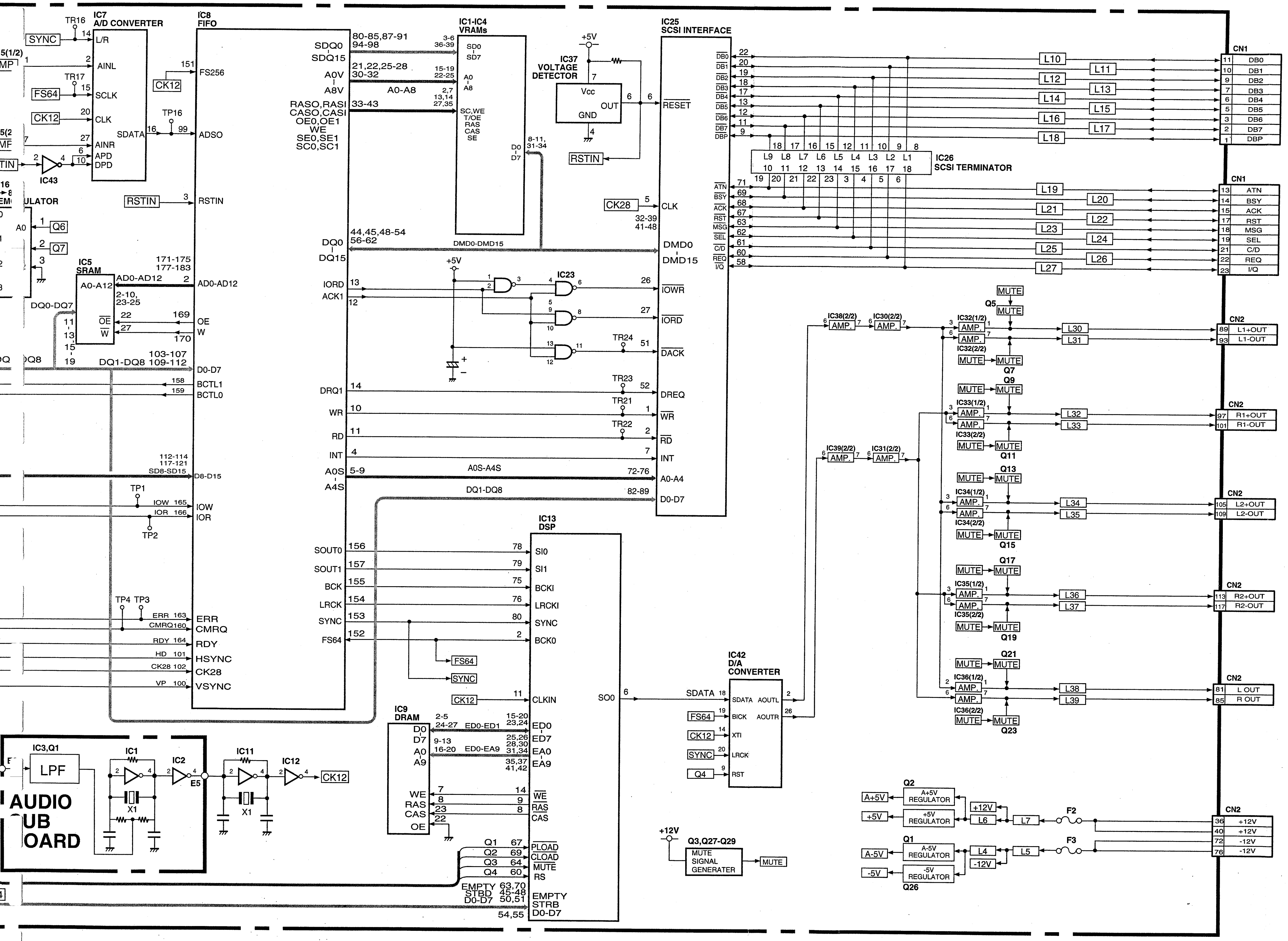


IC240 D-LATCH
IRQMX
IRQJ1
IRQJ2
IRQJ3
IRQCG
IRQA
IRQ11
IC241 D-LATCH
CMDMX
CMDJ1
CMDJ2
CMDJ3
CMDA
IRQ10
CN2
27 IRQMX
11 IRQJ1
15 IRQJ2
19 IRQJ3
23 IRQCG
31 IRQA
47 CMDMX
35 CMDJ1
39 CMDJ2
43 CMDJ3
51 CMDA
CN1
135 IRQ10
131 IRQ11
IC11 SELECTOR
IC12 RS422A TRANSCEIVER
CN1
1 PSDO
2 PSCLK
5 SLATCH
6 SCS
9 PSDI
CN1
13 RXA1
17 RXB1
21 RXA2
25 RXB2
IC23
IC24
CN1
18 TXB1
14 TXA1
22 TXB2
26 TXA2
IC22
AMP.
Q3-Q6
DRIVER
IC25 RS422A TRANSCEIVER
CN1
99 HD
29 TCIN
33 TCOUT
WHD
IC212
+5VD
IC215
VR220
+5VD
IC216
CN2
55 C.SYNC
Q225
AMP.
Q237
AMP.
BLKIN
HDIN
CIN
SYNC
RYO
RYIN
BYIN
COUT
BYO
YIN
TINT
BPGW
VCXOI
C CONT
VCXO OUT
IC214
CHROMA DIFFERENCE DECODER
Q244-Q247
AMP.
Q252
BIAS
Q248-Q251
AMP.
VR210
VR209
VR207
VR208
CT202
X202
Q224
AMP.
Q236
AMP.
IC220 SWITCH
AO8
AO9
Q254
AMP.
CF209
Q255
AMP.
IC221 SWITCH
Q262
AMP.
CF210
Q263
AMP.
IC222 SWITCH
Q270
AMP.
CF211
CF212
Q271
AMP.
AMP.
Q240
AMP.
Q241
IC223
VCA
AO6
IC244 SWITCH
Q294
AMP.
+5V
Q256-Q259
AMP.
VR216
Q264-Q267
AMP.
VR217
Q272-Q275
AMP.
VR218
BIAS
Q260
CLAMP
Q268
CLAMP
Q276
CLAMP
Q261
AMP.
Q269
AMP.
Q277
AMP.
IC226
A/D CONVERTER
VIN
CLK
VRT
VRB
IC235 A/D CONVERTER
IC229 A/D CONVERTER
IC236
2→1 SELECTOR
IC237
2→1
SELECTOR
IC227
D-FFs
IC230
D-FFs
A01
A01
CN2
73 C7A
74 C6A
77 C5A
78 C4A
81 C3A
82 C2A
85 C1A
86 C0A
CN2
89 Y7A
90 Y6A
93 Y5A
94 Y4A
97 Y3A
98 Y2A
101 Y1A
102 Y0A
CN2
63 YADCLK
71 CSEL
59 CLAMP
CN1
24 +12V
28 +12V
CN1
36 +12V
40 +12V
CN2
72 -12V
76 -12V
IC239
+5V
Q288,Q289, IC219
REFERENCE VOLTAGE GENERATOR
+12V
SF201
-5V REGUATOR
SF202
IC234 SELECTOR
X1
X0
Y1
Y0
C B A
AO8
VR222
IC233 (1/4)
IC233 (2/4)
VR211
VR225
IC218(1/4)
IC218(2/4)
IC218 (3/4)
AO5
VR219

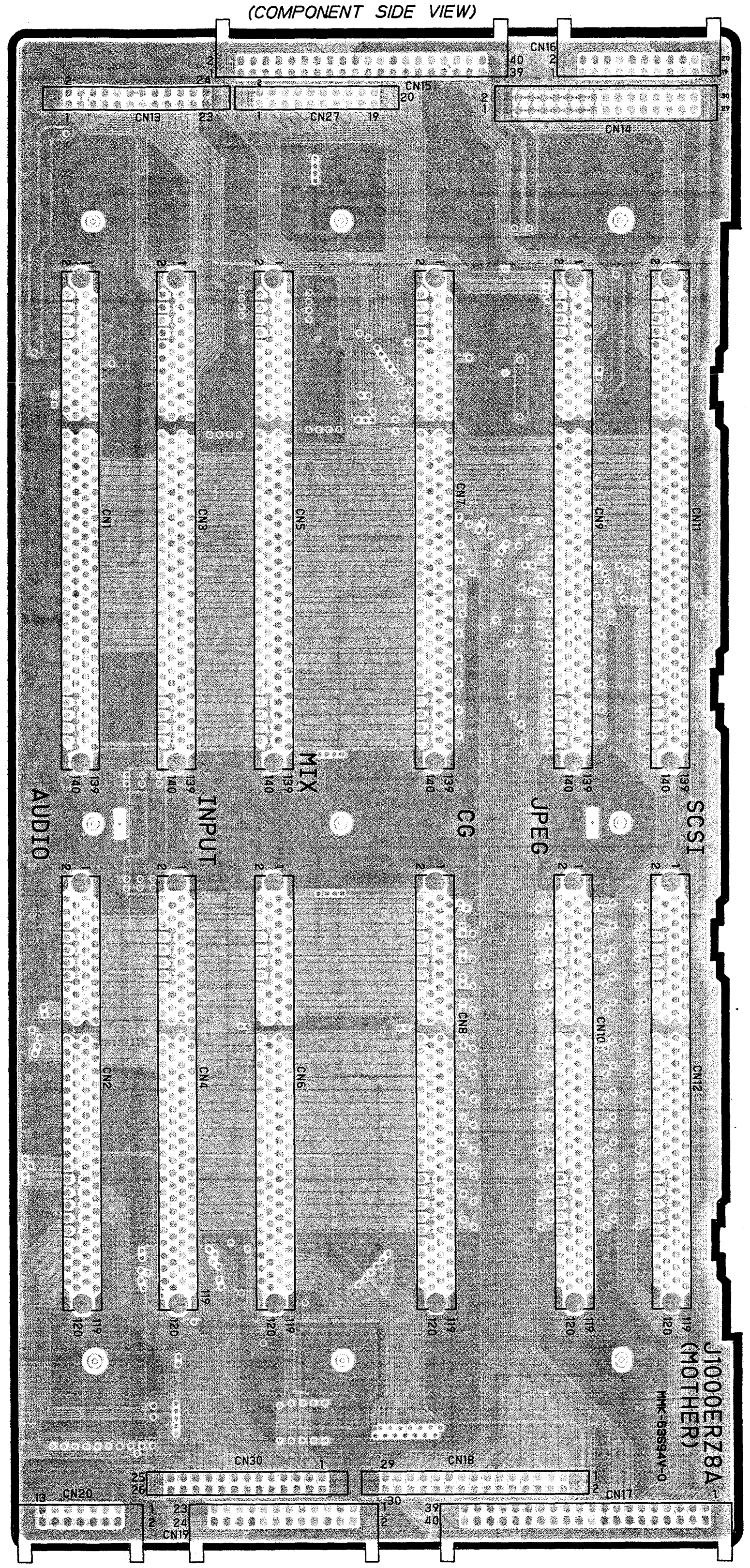
BLOCK DIAGRAM OF AUDIO BOARD


CN2
L1+IN
L1-IN
R1+IN
R1-IN
L2+IN
L2-IN
R2+IN
R2-IN
L3IN
R3IN
L4IN
R4IN
CN1
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IOR
IOW
IRQA
CMDA
RSTRDY
HD
28.6M
VP
EMPTY
STB D
STB C
D0
D1
D2
D3
D4
D5
D6
D7
IC22(1/2)
IC22(2/2)
IC21(1/2)
IC21(2/2)
IC20(1/2)
IC20(2/2)
IC19(1/2)
IC19(2/2)
AMP.
IC18
SELECTOR
IC17
SELECTOR
CH1
CH2
CH3
CH4
IC15(1/2)
IC15(2/2)
IC16
3→8
DEMODULATOR
IC43
IC7
A/D CONVERTER
SYNC
FS64
CK12
RSTIN
TR16
TR17
TP16
L/R
AINL
SCLK
CLK
SDATA
AINR
APD
DPD
IC8
FIFO
FS256
ADSO
RSTIN
AD0-AD12
OE
W
D0-D7
BCTL1
BCTL0
D8-D15
IOW
IOR
ERR
CMRQ
RDY
HSYNC
CK28
VSYNC
IC5
SRAM
A0-A12
DQ0-DQ7
IC6
TRANSCEIVER
SD0-SD7
DQ1-DQ8
DIR
EN
IC500
BUS BUFFER
IC27
LOGIC
CONTROL
TP1
TP2
TP3
TP4
IC28
IC40
D-FF
STBC
Q6
Q7
Q4
RST
E2
E5
IC3,Q1
LPF
IC1
IC2
IC11
IC12
X1
AUDIO
SUB
BOARD
SDQ0
SDQ15
A0V
A8V
RASO,RASI
CASO,CASI
OE0,OE1
WE
SE0,SE1
SC0,SC1
DQ0
DQ15
IORD
ACK1
DRQ1
WR
RD
INT
A0S
A4S
SOUT0
SOUT1
BCK
LRCK
SYNC
FS64
IC1-IC4
VRAMs
A0-A8
DMD0-DMD15
IC37
VOLTAGE
DETECTOR
+5V
Vcc
OUT
GND
IC23
TR21
TR22
TR23
TR24
A0S-A4S
IC25
SCSI INTERFACE
RESET
CLK
CK28
DMD0
DMD15
IOWR
IORD
DACK
DREQ
WR
RD
INT
A0-A4
D0-D7
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DBP
L9 L8 L7 L6 L5 L4 L3
IC13
DSP
SI0
SI1
BCKI
LRCKI
SYNC
BCK0
CLKIN
SO0
PLOAD
CLOAD
MUTE
RS
EMPTY
STRB
D0-D7
IC9
DRAM
ED0
ED7
EA0
EA9
WE
RAS
CAS
OE
IC42
D/A
CONVERTER
SDATA
BICK
XTI
LRCK
RST
AOUTL
AOUTR
IC38(2/2)
IC39(2/2)
+12V
Q3,Q27-Q29
MUTE
SIGNAL
GENERATER
MUTE

BLOCK DIAGRAM OF AUDIO BOARD


IC7
A/D CONVERTER
TR16
SYNC
L/R
AINL
TR17
FS64
SCLK
CK12
CLK
SDATA
AINR
APD
DPD
IC43
TIN
ULATOR
Q6
Q7
A0
IC5
SRAM
A0-A12
OE
W
DQ0-DQ7
DQ1-DQ8
IC8
FIFO
FS256
CK12
TP16
ADSO
RSTIN
AD0-AD12
OE
W
D0-D7
BCTL1
BCTL0
D8-D15
TP1
IOW
IOR
TP2
TP4 TP3
ERR
CMRQ
RDY
HSYNC
CK28
VSYNC
SDQ0
SDQ15
A0V
A8V
RASO,RASI
CASO,CASI
OE0,OE1
WE
SE0,SE1
SC0,SC1
DQ0
DQ15
IORD
ACK1
DRQ1
WR
RD
INT
A0S
A4S
SOUT0
SOUT1
BCK
LRCK
SYNC
FS64
IC1-IC4
VRAMs
SD0
SD7
A0
A8
SC,WE
T/OE
RAS
CAS
SE
D0
D7
A0-A8
DMD0-DMD15
A0S-A4S
DQ1-DQ8
IC23
+5V
TR24
TR23
TR21
TR22
IC37
VOLTAGE
DETECTOR
Vcc
OUT
GND
RSTIN
IC25
SCSI INTERFACE
RESET
CLK
CK28
DMD0
DMD15
IOWR
IORD
DACK
DREQ
WR
RD
INT
A0-A4
D0-D7
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DBP
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
IC26
SCSI TERMINATOR
L1 L2 L3 L4 L5 L6 L7 L8 L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
L21
L22
L23
L24
L25
L26
L27
CN1
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DBP
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
IC13
DSP
SI0
SI1
BCKI
LRCKI
SYNC
BCK0
CLKIN
SO0
CK12
FS64
SYNC
IC9
DRAM
D0
D7
A0
A9
WE
RAS
CAS
OE
ED0-ED1
ED0-EA9
ED0
ED7
EA0
EA9
WE
RAS
CAS
Q1
Q2
Q3
Q4
PLOAD
CLOAD
MUTE
RS
EMPTY
STBD
D0-D7
EMPTY
STRB
D0-D7
IC42
D/A
CONVERTER
SDATA
SDATA
AOUTL
AOUTR
BICK
XTI
LRCK
RST
FS64
CK12
SYNC
Q4
IC38(2/2)
IC30(2/2)
IC39(2/2)
IC31(2/2)
AMP.
MUTE
Q5
IC32(1/2)
IC32(2/2)
Q7
Q9
IC33(1/2)
IC33(2/2)
Q11
Q13
IC34(1/2)
IC34(2/2)
Q15
Q17
IC35(1/2)
IC35(2/2)
Q19
Q21
IC36(1/2)
IC36(2/2)
Q23
L30
L31
L32
L33
L34
L35
L36
L37
L38
L39
CN2
L1+OUT
L1-OUT
R1+OUT
R1-OUT
L2+OUT
L2-OUT
R2+OUT
R2-OUT
L OUT
R OUT
+12V
Q3,Q27-Q29
MUTE
SIGNAL
GENERATER
MUTE
Q2
A+5V
A+5V REGULATOR
+5V
+5V REGULATOR
Q1
A-5V
A-5V REGULATOR
-5V
-5V REGULATOR
Q26
+12V
L6
L7
F2
L4
L5
F3
-12V
+12V
+12V
-12V
-12V
IC3,Q1
LPF
IC1
IC2
E5
X1
IC11
IC12
X1
CK12
AUDIO
SUB
BOARD

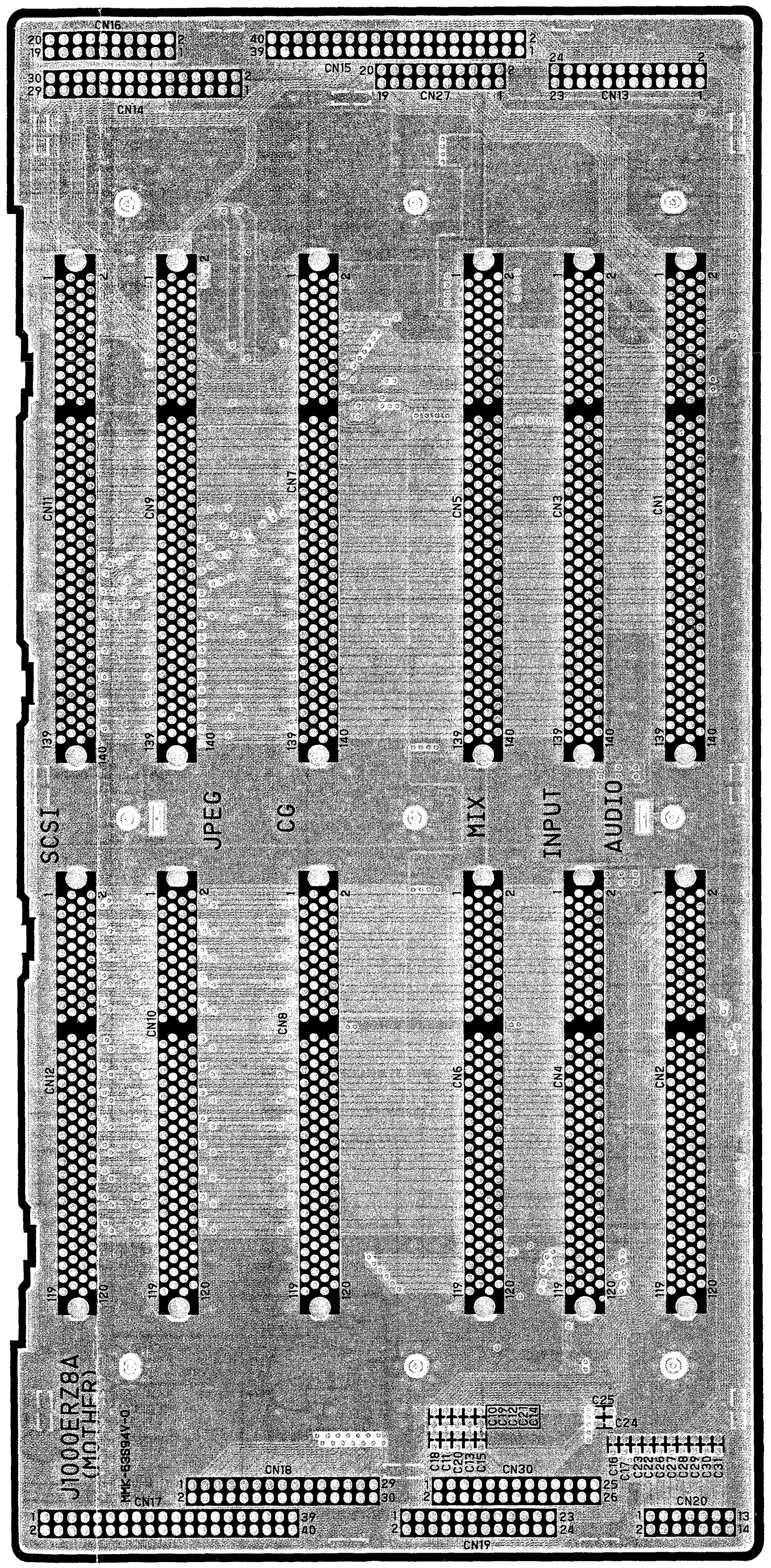
CONDUCTOR VIEW OF MOTHER BOARD



(COMPONENT SIDE VIEW)

CN13
CN27
CN15
CN16
CN14
CN1
CN3
CN5
CN7
CN9
CN11
CN2
CN4
CN6
CN8
CN10
CN12
AUDIO
INPUT
MIX
CG
JPEG
SCSI
CN30
CN18
CN17
CN20
CN19
J1000ERZ8A
(MOTHER)
MMK-6S694V-0

▨ COMPONENT SIDE
INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2



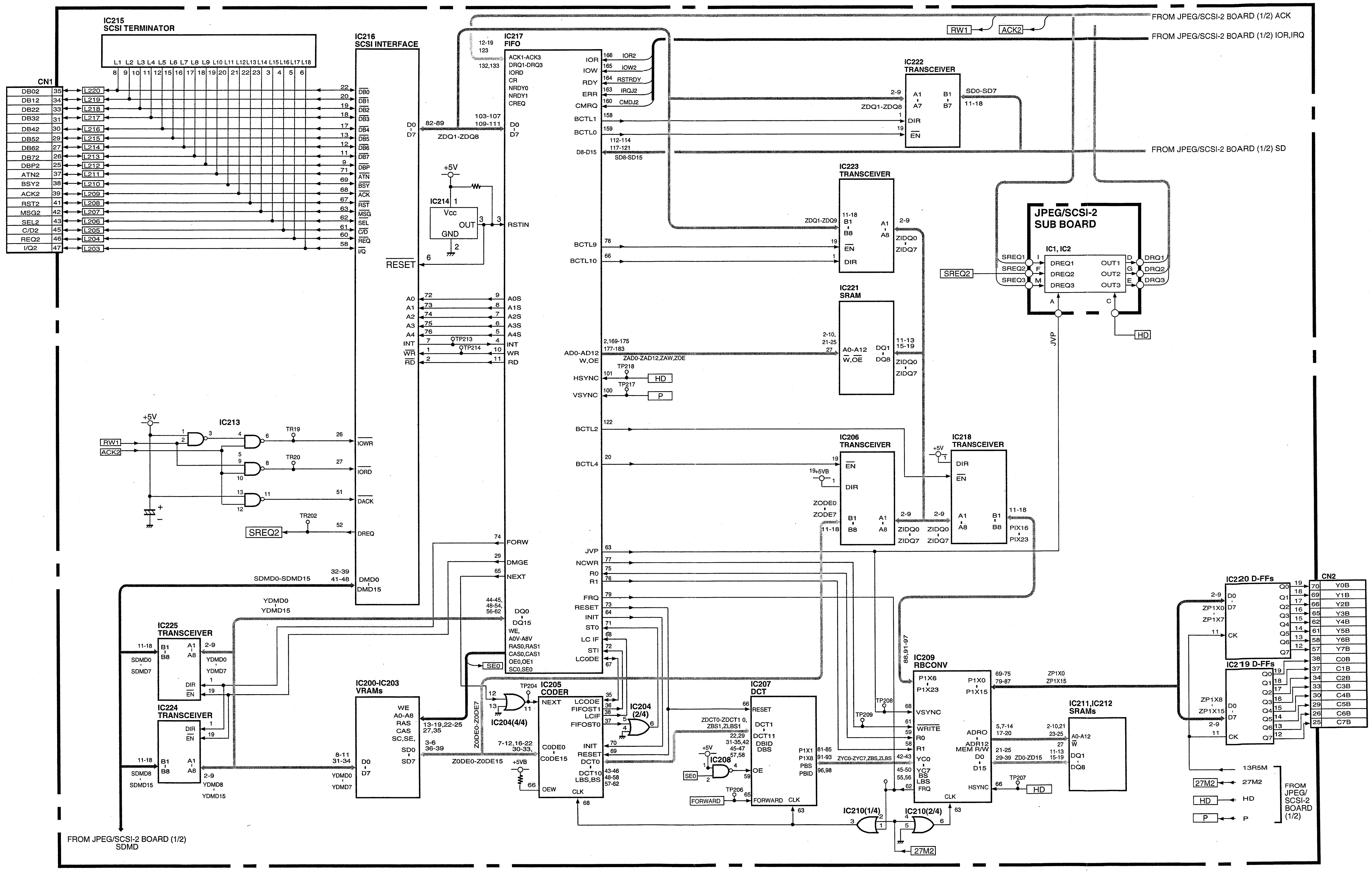
(PATTERN SIDE VIEW)

CN16
CN14
CN15
CN27
CN13
CN11
CN9
CN7
CN5
CN3
CN1
SCSI
JPEG
CG
MIX
INPUT
AUDIO
CN12
CN10
CN8
CN6
CN4
CN2
J1000ERZ8A
(MOTHER)
MMK-6S694V-0
CN17
CN18
CN30
CN19
CN20

▨ PATTERN SIDE
INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2

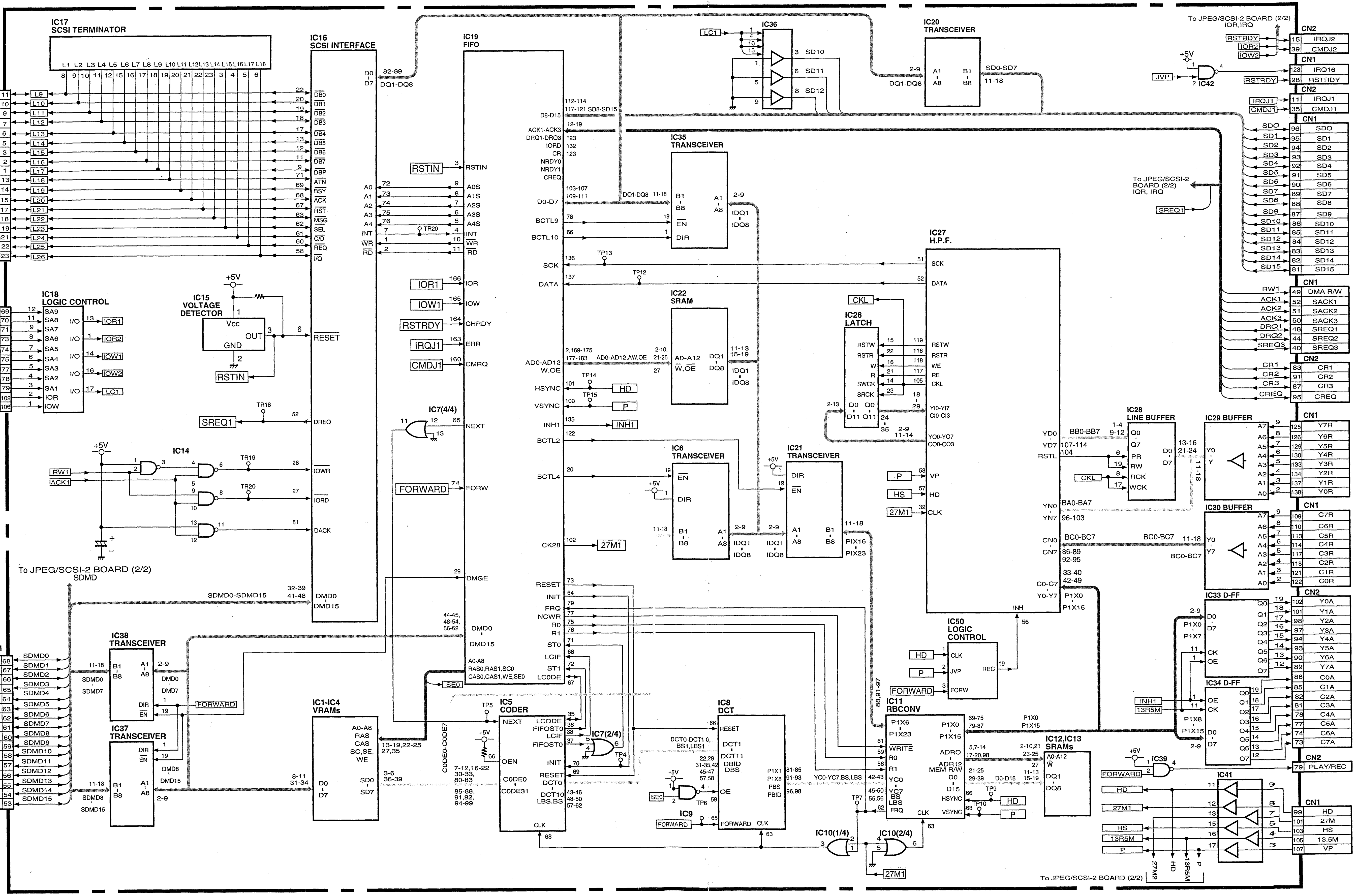
E
D
C
B
A
1
2
3
4
5

BLOCK DIAGRAM OF JPEG/SCSI-2 (2/2) BOARD

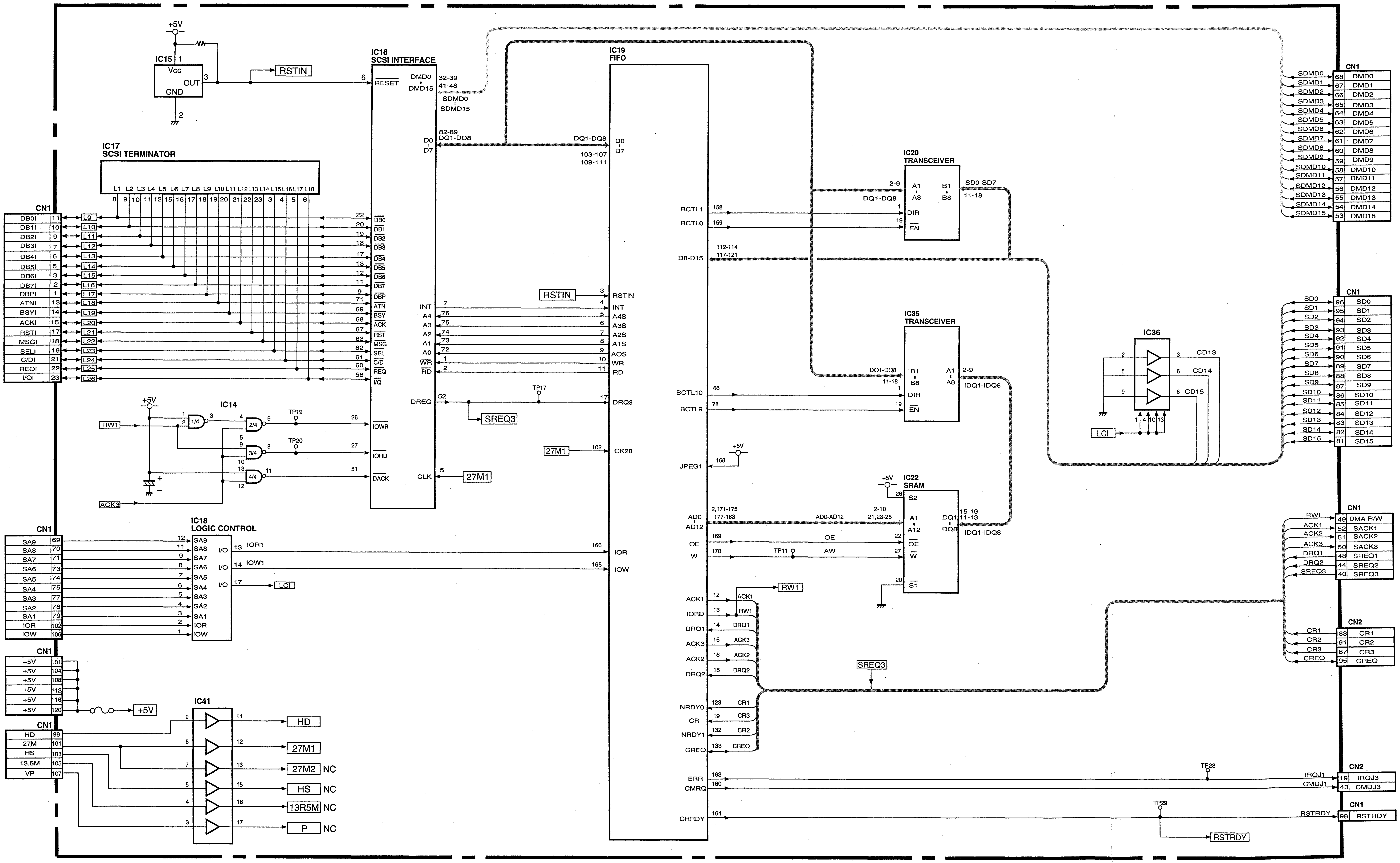


IC215
SCSI TERMINATOR
CN1
DB02
DB12
DB22
DB32
DB42
DB52
DB62
DB72
DBP2
ATN2
BSY2
ACK2
RST2
MSG2
SEL2
C/D2
REQ2
I/Q2
IC216
SCSI INTERFACE
RESET
IC217
FIFO
IOR
IOW
RDY
ERR
CMRQ
BCTL1
BCTL0
D8-D15
BCTL9
BCTL10
AD0-AD12
W,OE
HSYNC
VSYNC
BCTL2
BCTL4
JVP
NCWR
R0
R1
FRQ
RESET
INIT
STO
LC IF
STI
LCODE
IC214
Vcc
OUT
GND
RSTIN
+5V
IC213
RW1
ACK2
SREQ2
SDMD0-SDMD15
YDMD0
YDMD15
FROM JPEG/SCSI-2 BOARD (1/2) ACK
FROM JPEG/SCSI-2 BOARD (1/2) IOR,IRQ
FROM JPEG/SCSI-2 BOARD (1/2) SD
IC222
TRANSCEIVER
IC223
TRANSCEIVER
IC221
SRAM
JPEG/SCSI-2
SUB BOARD
IC1, IC2
DREQ1
DREQ2
DREQ3
OUT1
OUT2
OUT3
SREQ1
SREQ2
SREQ3
DRQ1
DRQ2
DRQ3
JVP
HD
P
IC206
TRANSCEIVER
IC218
TRANSCEIVER
IC225
TRANSCEIVER
IC224
TRANSCEIVER
IC200-IC203
VRAMs
IC204(4/4)
IC205
CODER
IC204
(2/4)
IC207
DCT
IC208
FORWARD
SE0
IC209
RBCONV
IC211,IC212
SRAMs
IC210(1/4)
IC210(2/4)
27M2
IC220 D-FFs
IC219 D-FFs
CN2
Y0B
Y1B
Y2B
Y3B
Y4B
Y5B
Y6B
Y7B
C0B
C1B
C2B
C3B
C4B
C5B
C6B
C7B
13R5M
27M2
HD
P
FROM JPEG/SCSI-2 BOARD (1/2)
FROM JPEG/SCSI-2 BOARD (1/2) SDMD

BLOCK DIAGRAM OF JPEG/SCSI-2 (1/2) BOARD

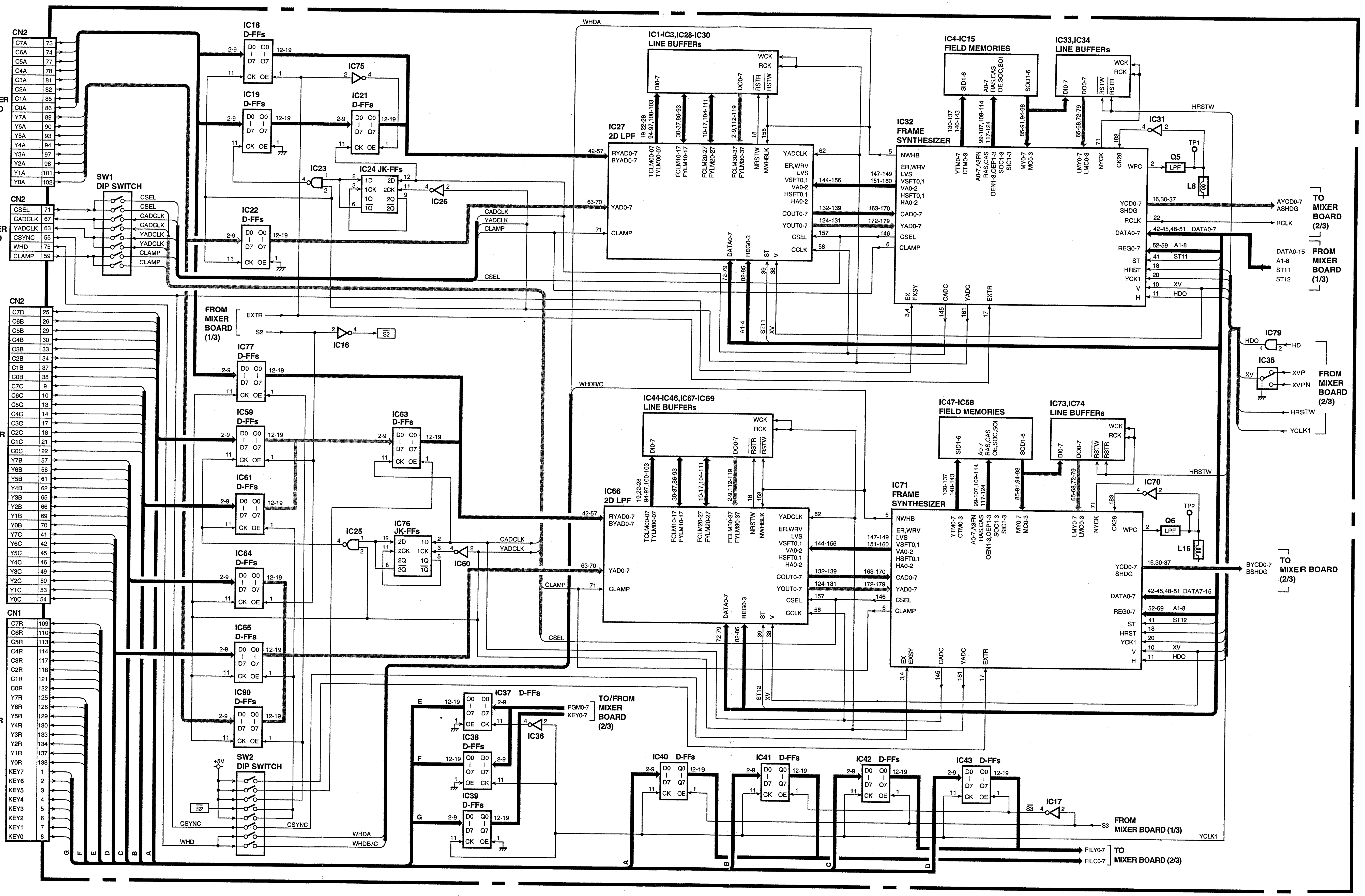

IC17
SCSI TERMINATOR
IC16
SCSI INTERFACE
IC19
FIFO
IC36
IC20
TRANSCEIVER
IC42
IC35
TRANSCEIVER
IC22
SRAM
IC26
LATCH
IC27
H.P.F.
IC18
LOGIC CONTROL
IC15
VOLTAGE
DETECTOR
IC14
IC7(4/4)
IC6
TRANSCEIVER
IC21
TRANSCEIVER
IC28
LINE BUFFER
IC29 BUFFER
IC30 BUFFER
IC33 D-FF
IC34 D-FF
IC50
LOGIC
CONTROL
IC38
TRANSCEIVER
IC37
TRANSCEIVER
IC1-IC4
VRAMs
IC5
CODER
IC7(2/4)
IC8
DCT
IC9
IC11
RBCONV
IC12,IC13
SRAMs
IC39
IC41
IC10(1/4)
IC10(2/4)
CN1
CN2
DB01
DB11
DB21
DB31
DB41
DB51
DB61
DB71
DBP1
ATN1
BSY1
ACK1
RST1
MSG1
SEL1
C/D1
REQ1
I/O1
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IOR
IOW
DMD0
DMD15
SDMD0
SDMD15
RSTIN
SREQ1
RW1
ACK1
IOR1
IOW1
RSTRDY
IRQJ1
CMDJ1
LC1
FORWARD
SE0
27M1
HD
P
HS
INH1
13R5M
JVP
IRQJ2
CMDJ2
IRQ16
SD0-SD15
DMA R/W
SACK1
SACK2
SACK3
SREQ1
SREQ2
SREQ3
CR1
CR2
CR3
CREQ
Y7R
Y6R
Y5R
Y4R
Y3R
Y2R
Y1R
Y0R
C7R
C6R
C5R
C4R
C3R
C2R
C1R
C0R
Y0A
Y1A
Y2A
Y3A
Y4A
Y5A
Y6A
Y7A
C0A
C1A
C2A
C3A
C4A
C5A
C6A
C7A
PLAY/REC
HD
27M
HS
13.5M
VP
To JPEG/SCSI-2 BOARD (2/2)
IOR,IRQ
To JPEG/SCSI-2 BOARD (2/2)
IQR, IRQ
To JPEG/SCSI-2 BOARD (2/2)
SDMD
To JPEG/SCSI-2 BOARD (2/2)
+5V
TR18
TR19
TR20
TP4
TP5
TP6
TP7
TP9
TP10
TP12
TP13
TP14
TP15

BLOCK DIAGRAM OF JPEG/SCSI-1 BOARD

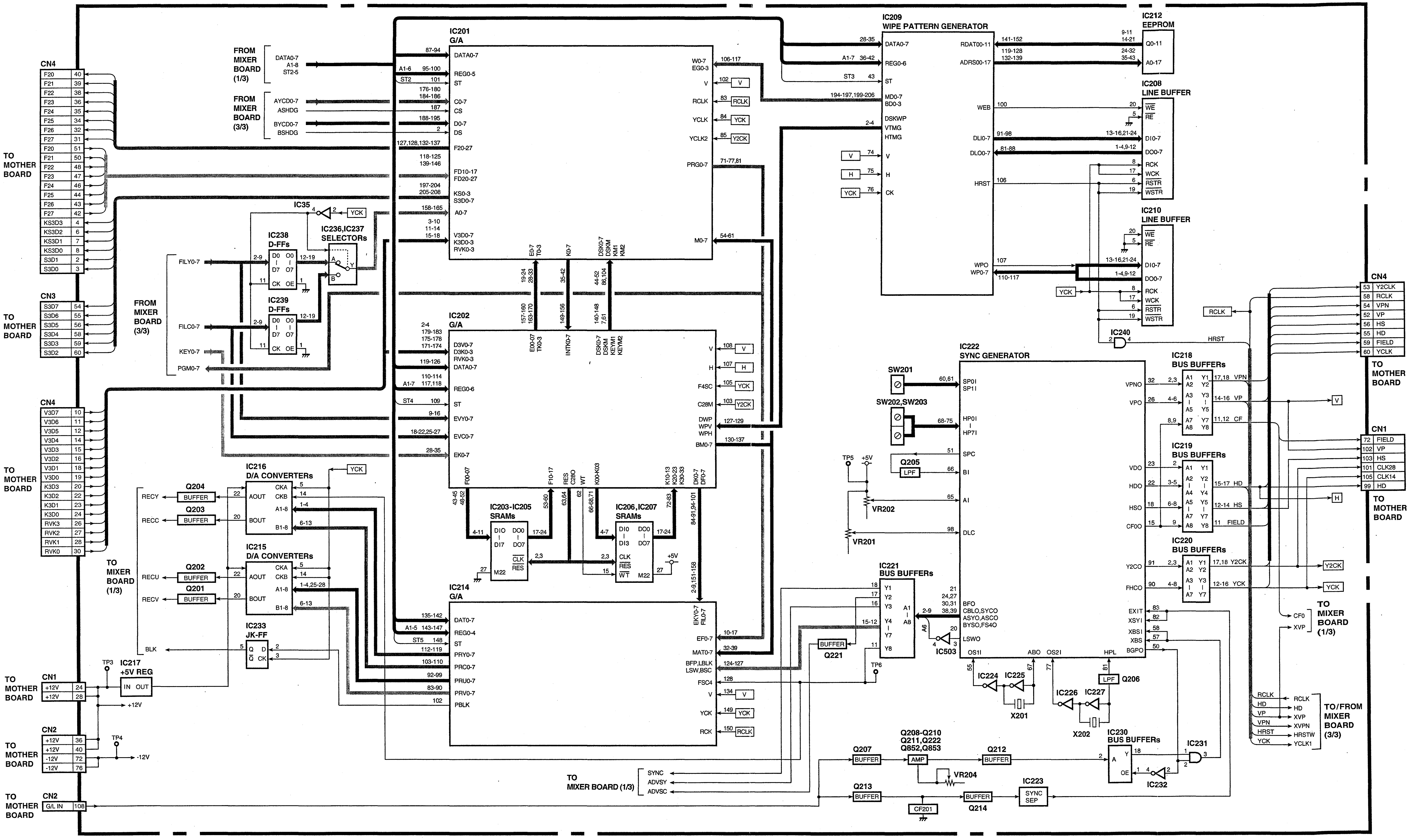


+5V
IC15
Vcc
OUT
GND
RSTIN
IC16
SCSI INTERFACE
RESET
DMD0
DMD15
32-39
41-48
SDMD0
SDMD15
82-89
DQ1-DQ8
D0
D7
IC19
FIFO
103-107
109-111
IC17
SCSI TERMINATOR
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18
CN1
DB0I
DB1I
DB2I
DB3I
DB4I
DB5I
DB6I
DB7I
DBPI
ATNI
BSYI
ACKI
RSTI
MSGI
SELI
C/DI
REQI
I/OI
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
L21
L22
L23
L24
L25
L26
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DBP
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
INT
A4
A3
A2
A1
A0
WR
RD
RSTIN
A4S
A3S
A2S
A1S
AOS
DREQ
TP17
DRQ3
SREQ3
IC14
RW1
TP19
TP20
IOWR
IORD
DACK
ACK3
CLK
27M1
CK28
IC20
TRANSCEIVER
A1
A8
B1
B8
SD0-SD7
11-18
DIR
EN
BCTL1
BCTL0
D8-D15
112-114
117-121
IC35
TRANSCEIVER
DQ1-DQ8
IDQ1-IDQ8
BCTL10
BCTL9
IC36
CD13
CD14
CD15
LCI
JPEG1
IC22
SRAM
S2
AD0
AD12
2,171-175
177-183
AD0-AD12
2-10
21,23-25
A12
DQ1
DQ8
15-19
11-13
OE
W
TP11
AW
S1
IC18
LOGIC CONTROL
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IOR
IOW
I/O
IOR1
IOW1
ACK1
IORD
DRQ1
ACK2
DRQ2
NRDY0
CR
NRDY1
CREQ
CR1
CR3
CR2
ERR
CMRQ
CHRDY
TP28
TP29
IRQJ1
CMDJ1
RSTRDY
IRQJ3
CMDJ3
CN2
SDMD0
SDMD1
SDMD2
SDMD3
SDMD4
SDMD5
SDMD6
SDMD7
SDMD8
SDMD9
SDMD10
SDMD11
SDMD12
SDMD13
SDMD14
SDMD15
DMD0
DMD1
DMD2
DMD3
DMD4
DMD5
DMD6
DMD7
DMD8
DMD9
DMD10
DMD11
DMD12
DMD13
DMD14
DMD15
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
RWI
DMA R/W
SACK1
SACK2
SACK3
SREQ1
SREQ2
SREQ3
CREQ
+5V
IC41
HD
27M
HS
13.5M
VP
27M2
NC
13R5M
P

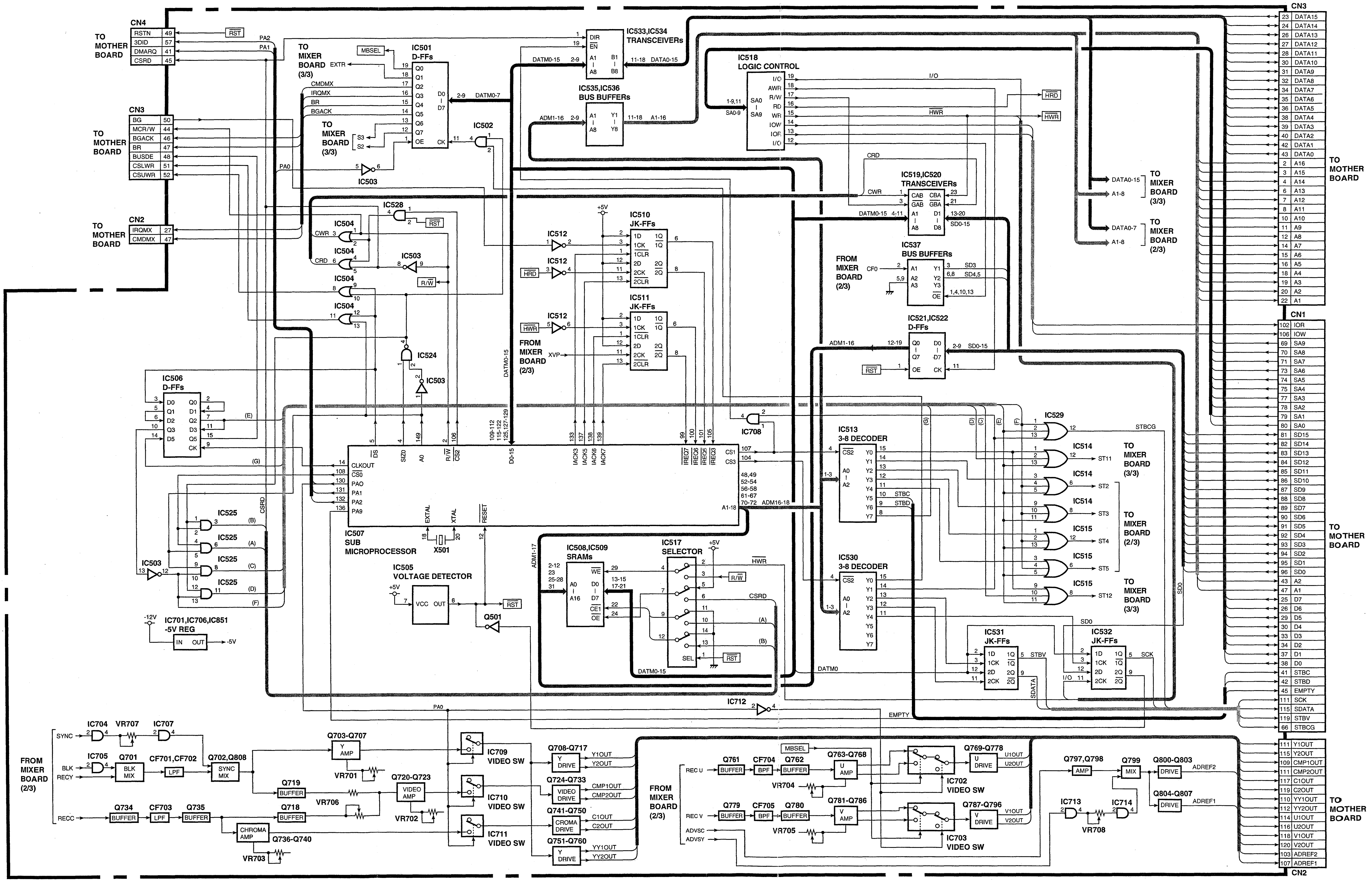
BLOCK DIAGRAM OF MIXER BOARD (3/3)


CN2
C7A C6A C5A C4A C3A C2A C1A C0A Y7A Y6A Y5A Y4A Y3A Y2A Y1A Y0A
TO MOTHER BOARD
SW1 DIP SWITCH
CSEL CADCLK YADCLK CSYNC WHD CLAMP
IC18 D-FFs
IC19 D-FFs
IC21 D-FFs
IC75
IC23
IC24 JK-FFs
IC26
IC22 D-FFs
WHDA
IC1-IC3,IC28-IC30 LINE BUFFERs
WCK RCK DI0-7 DO0-7 RSTR RSTW
IC27 2D LPF
RYAD0-7 BYAD0-7 YAD0-7 CLAMP
TCLM00-07 TYLM00-07 FCLM10-17 FYLM10-17 FCLM20-27 FYLM20-27 FCLM30-37 FYLM30-37 NRSTW NWHBLK
YADCLK ER,WRV LVS VSFT0,1 VA0-2 HSFT0,1 HA0-2 COUT0-7 YOUT0-7 CSEL CCLK
DATA0-7 REG0-3 ST V
IC4-IC15 FIELD MEMORIES
SID1-6 A0-7, RAS,CAS OE,SOC,SOI SOD1-6
IC33,IC34 LINE BUFFERs
IC32 FRAME SYNTHESIZER
NWHB ER,WRV LVS VSFT0,1 VA0-2 HSFT0,1 HA0-2 CAD0-7 YAD0-7 CSEL CLAMP
YTM0-7 CTM0-3 A0-7,A3FN RAS,CAS OEN1-3,OEP1-3 SOC1-3 SIC1-3 MY0-7 MC0-3 LMY0-7 LMC0-3 NYCK CK28 WPC
YCD0-7 SHDG RCLK DATA0-7 REG0-7 ST HRST YCK1 V H
EX EXSY CADC YADC EXTR
IC31 HRSTW TP1 Q5 LPF L8
AYCD0-7 ASHDG RCLK TO MIXER BOARD (2/3)
DATA0-15 A1-8 ST11 ST12 FROM MIXER BOARD (1/3)
FROM MIXER BOARD (1/3) EXTR S2
IC16
IC79 HDO HD
IC35 XV XVP XVPN FROM MIXER BOARD (2/3)
HRSTW YCLK1
CN2
C7B C6B C5B C4B C3B C2B C1B C0B C7C C6C C5C C4C C3C C2C C1C C0C Y7B Y6B Y5B Y4B Y3B Y2B Y1B Y0B Y7C Y6C Y5C Y4C Y3C Y2C Y1C Y0C
TO MOTHER BOARD
IC77 D-FFs
IC59 D-FFs
IC63 D-FFs
IC61 D-FFs
IC25
IC76 JK-FFs
IC60
IC64 D-FFs
IC65 D-FFs
IC90 D-FFs
WHDB/C
IC44-IC46,IC67-IC69 LINE BUFFERs
IC66 2D LPF
IC47-IC58 FIELD MEMORIES
IC73,IC74 LINE BUFFERs
IC71 FRAME SYNTHESIZER
IC70 TP2 Q6 LPF L16
BYCD0-7 BSHDG TO MIXER BOARD (2/3)
DATA7-15 A1-8 ST12 XV HDO
CN1
C7R C6R C5R C4R C3R C2R C1R C0R Y7R Y6R Y5R Y4R Y3R Y2R Y1R Y0R KEY7 KEY6 KEY5 KEY4 KEY3 KEY2 KEY1 KEY0
TO MOTHER BOARD
SW2 DIP SWITCH
+5V
S2
CSYNC WHD WHDA WHDB/C
G F E D C B A
IC37 D-FFs
IC38 D-FFs
IC39 D-FFs
IC36
PGM0-7 KEY0-7 TO/FROM MIXER BOARD (2/3)
IC40 D-FFs
IC41 D-FFs
IC42 D-FFs
IC43 D-FFs
IC17
S3 FROM MIXER BOARD (1/3)
YCLK1
FILY0-7 FILC0-7 TO MIXER BOARD (2/3)

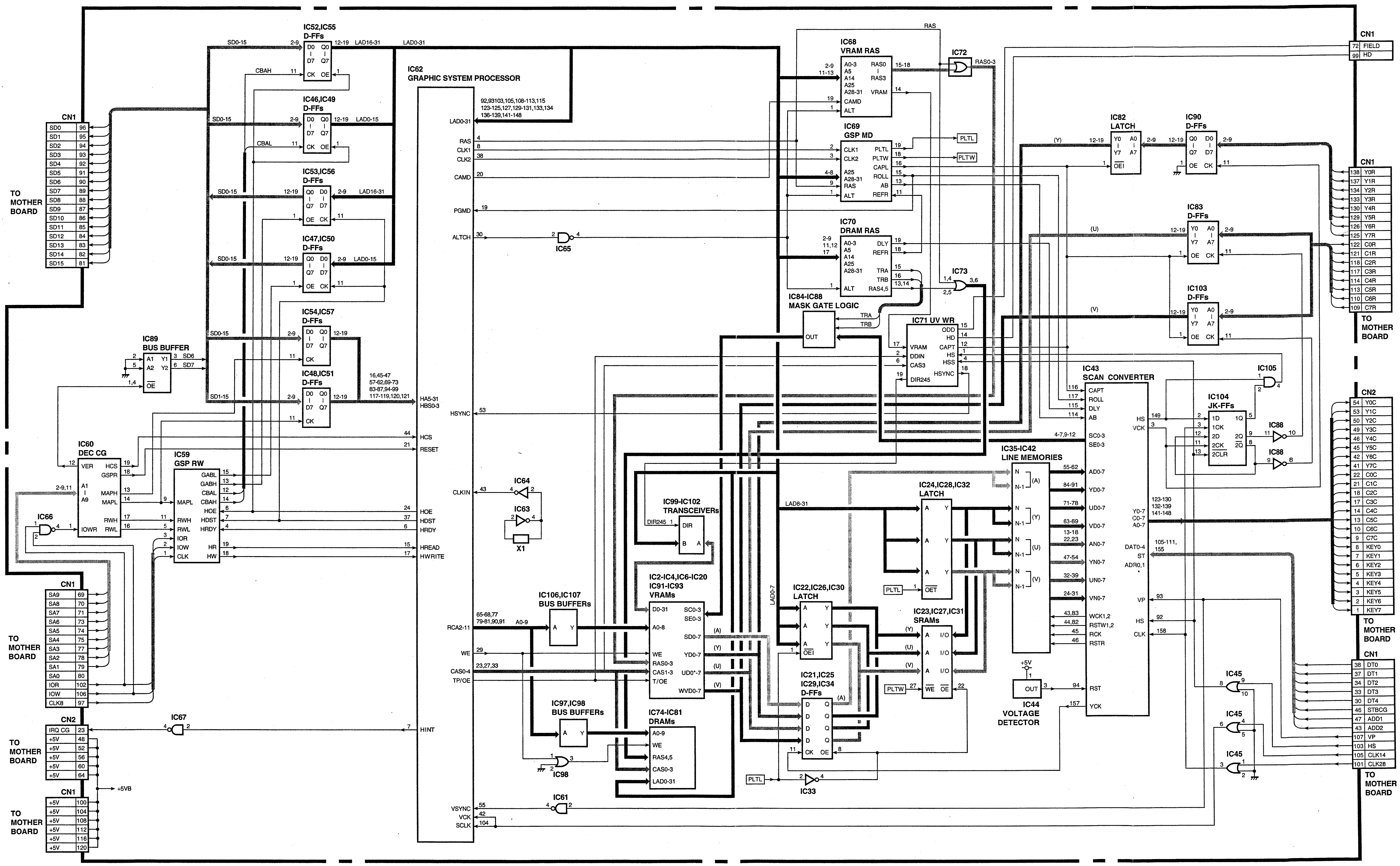
BLOCK DIAGRAM OF MIXER BOARD (2/3)

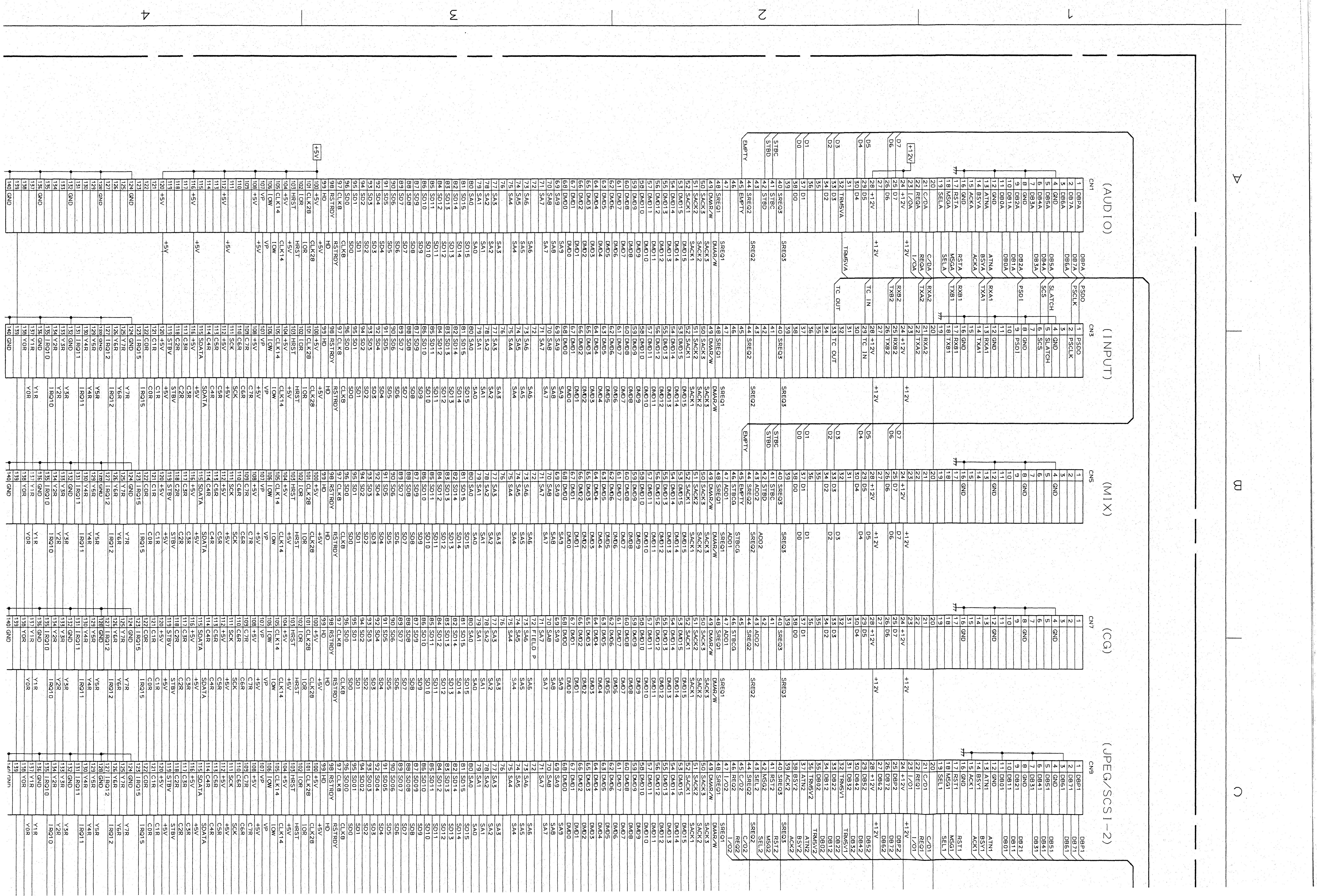

CN4
F20
F21
F22
F23
F24
F25
F26
F27
KS3D3
KS3D2
KS3D1
KS3D0
S3D1
S3D0
TO MOTHER BOARD
CN3
S3D7
S3D6
S3D5
S3D4
S3D3
S3D2
CN4
V3D7
V3D6
V3D5
V3D4
V3D3
V3D2
V3D1
V3D0
K3D3
K3D2
K3D1
K3D0
RVK3
RVK2
RVK1
RVK0
TO MIXER BOARD (1/3)
CN1
+12V
CN2
-12V
G/L IN
TP3
TP4
+12V
-12V
FROM MIXER BOARD (1/3)
DATA0-7
A1-8
ST2-5
FROM MIXER BOARD (3/3)
AYCD0-7
ASHDG
BYCD0-7
BSHDG
FILY0-7
FILC0-7
KEY0-7
PGM0-7
IC35
YCK
IC238 D-FFs
IC239 D-FFs
IC236,IC237 SELECTORs
IC201 G/A
DATA0-7
REG0-5
ST
C0-7
CS
D0-7
DS
F20-27
FD10-17
FD20-27
KS0-3
S3D0-7
A0-7
V3D0-7
K3D0-3
RVK0-3
W0-7
EG0-3
V
RCLK
YCLK
YCLK2
Y2CK
PRG0-7
M0-7
IC202 G/A
D3V0-7
D3K0-3
RVK0-3
DATA0-7
REG0-6
ST
EVY0-7
EVC0-7
EK0-7
H
F4SC
C28M
DWP
WPV
WPH
BM0-7
IC203-IC205 SRAMs
IC206,IC207 SRAMs
CLK
RES
WT
M22
+5V
IC214 G/A
DAT0-7
REG0-4
ST
PRY0-7
PRC0-7
PRU0-7
PRV0-7
PBLK
EKY0-7
FIL0-7
EF0-7
MAT0-7
BFP,LBLK
LSW,BSC
FSC4
RCK
IC216 D/A CONVERTERs
IC215 D/A CONVERTERs
Q204 BUFFER
Q203 BUFFER
Q202 BUFFER
Q201 BUFFER
RECY
RECC
RECU
RECV
BLK
IC233 JK-FF
IC217 +5V REG
IN OUT
IC209 WIPE PATTERN GENERATOR
DATA0-7
REG0-6
ST
MD0-7
BD0-3
DSKWP
VTMG
HTMG
CK
RDAT00-11
ADRS00-17
WEB
DLI0-7
DLO0-7
HRST
WPO
WP0-7
IC212 EEPROM
Q0-11
A0-17
IC208 LINE BUFFER
IC210 LINE BUFFER
WE
RE
DI0-7
DO0-7
WCK
RSTR
WSTR
IC240
IC222 SYNC GENERATOR
SW201
SW202,SW203
SP0I
SP1I
HP0I
HP7I
SPC
BI
AI
DLC
TP5
Q205 LPF
VR202
VR201
VPNO
VPO
VDO
HDO
HSO
CF0O
Y2CO
FHCO
EXIT
XSYI
XBSI
XBS
BGPO
BFO
CBLO,SYCO
ASYO,ASCO
BYSO,FS4O
LSWO
OS1I
ABO
OS2I
HPL
IC218 BUS BUFFERs
IC219 BUS BUFFERs
IC220 BUS BUFFERs
IC221 BUS BUFFERs
IC503
Q221 BUFFER
TP6
IC224
IC225
IC226
IC227
X201
X202
Q206 LPF
IC230 BUS BUFFERs
IC231
IC232
Q207 BUFFER
Q208-Q210 Q211,Q222 Q852,Q853 AMP
Q212 BUFFER
VR204
Q213 BUFFER
Q214 BUFFER
CF201
IC223 SYNC SEP
TO MIXER BOARD (1/3)
SYNC
ADVSY
ADVSC
CN4
Y2CLK
RCLK
VPN
VP
HS
HD
FIELD
YCLK
CN1
FIELD
VP
HS
CLK28
CLK14
HD
TO MOTHER BOARD
CF0
XVP
TO MIXER BOARD (1/3)
RCLK
HD
VP
VPN
HRST
YCK
XVP
XVPN
HRSTW
YCLK1
TO/FROM MIXER BOARD (3/3)

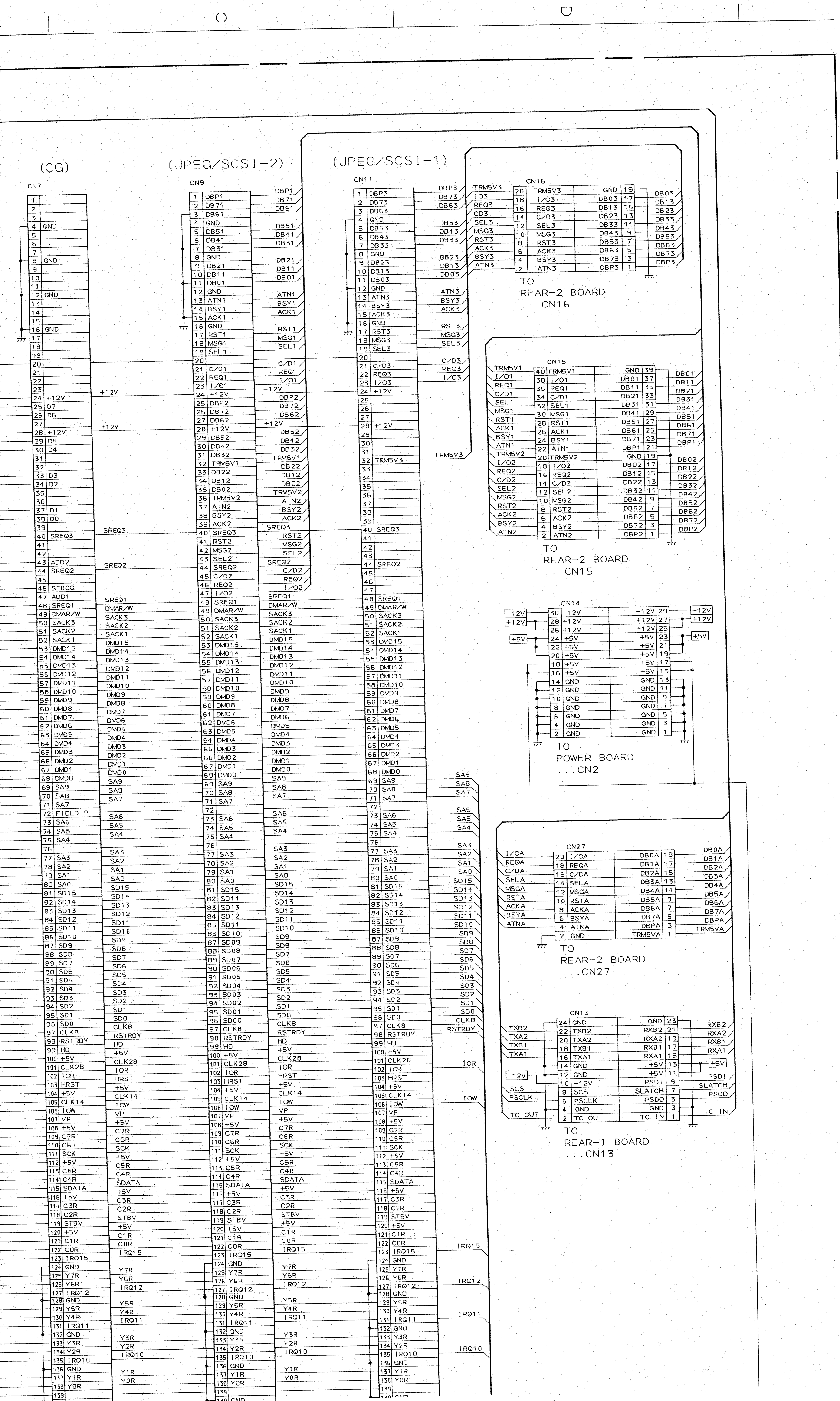
BLOCK DIAGRAM OF MIXER BOARD (1/3)


CN4
TO MOTHER BOARD
RSTN 49
3DID 57
DMARQ 41
CSRD 45
CN3
TO MOTHER BOARD
BG 50
MCR/W 44
BGACK 46
BR 47
BUSDE 48
CSLWR 51
CSUWR 52
CN2
TO MOTHER BOARD
IRQMX 27
CMDMX 47
RST
PA2
PA1
PA0
TO MIXER BOARD (3/3)
EXTR
MBSEL
IC501 D-FFs
CMDMX
IRQMX
BR
BGACK
TO MIXER BOARD (3/3)
S3
S2
IC502
IC503
IC528
IC504
CWR
CRD
R/W
IC524
IC506 D-FFs
(E)
(G)
IC525
CSRD
(B)
(A)
(C)
(D)
(F)
IC701,IC706,IC851 -5V REG
-12V
IN OUT
-5V
IC533,IC534 TRANSCEIVERs
DIR
EN
DATM0-15
DATA0-15
IC535,IC536 BUS BUFFERs
ADM1-16
A1-16
IC518 LOGIC CONTROL
SA0-9
I/O
AWR
R/W
RD
WR
IOW
IOR
HRD
HWR
+5V
IC510 JK-FFs
IC511 JK-FFs
IC512
HRD
HWR
FROM MIXER BOARD (2/3)
XVP
DATM0-15
IC507 SUB MICROPROCESSOR
CLKOUT
CS0
PA0
PA1
PA2
PA9
DS
SIZ0
A0
R/W
CS2
D0-15
IACK3
IACK5
IACK6
IACK7
IREQ7
IREQ6
IREQ5
IREQ3
CS1
CS3
A1-18
ADM16-18
EXTAL
XTAL
RESET
X501
IC505 VOLTAGE DETECTOR
VCC OUT
Q501
IC508,IC509 SRAMs
ADM1-17
WE
A0-A16
D0-D7
CE1
OE
IC517 SELECTOR
SEL
DATM0-15
IC708
IC519,IC520 TRANSCEIVERs
CAB CBA
GAB GBA
DATM0-15
SD0-15
IC537 BUS BUFFERs
FROM MIXER BOARD (2/3)
CF0
SD3
SD4,5
IC521,IC522 D-FFs
ADM1-16
SD0-15
RST
TO MIXER BOARD (3/3)
DATA0-15
A1-8
TO MIXER BOARD (2/3)
DATA0-7
A1-8
IC513 3-8 DECODER
IC530 3-8 DECODER
STBC
STBD
IC529
STBCG
IC514
ST11
ST2
ST3
IC515
ST4
ST5
ST12
TO MIXER BOARD (3/3)
TO MIXER BOARD (2/3)
TO MIXER BOARD (3/3)
IC531 JK-FFs
STBV
IC532 JK-FFs
SCK
SDATA
SD0
DATM0
IC712
EMPTY
CN3
DATA15-DATA0
A16-A1
TO MOTHER BOARD
CN1
IOR
IOW
SA9-SA1
SD15-SD0
A2
A1
D7-D0
STBC
STBD
EMPTY
SCK
SDATA
STBV
STBCG
TO MOTHER BOARD
FROM MIXER BOARD (2/3)
SYNC
IC704
VR707
IC707
IC705
BLK
RECY
Q701 BLK MIX
CF701,CF702 LPF
Q702,Q808 SYNC MIX
Q703-Q707 Y AMP
VR701
Q719 BUFFER
VR706
Q720-Q723 VIDEO AMP
VR702
RECC
Q734 BUFFER
CF703 LPF
Q735 BUFFER
Q718 BUFFER
CHROMA AMP Q736-Q740
VR703
IC709 VIDEO SW
IC710 VIDEO SW
IC711 VIDEO SW
Q708-Q717 Y DRIVE
Y1OUT
Y2OUT
Q724-Q733 VIDEO DRIVE
CMP1OUT
CMP2OUT
Q741-Q750 CROMA DRIVE
C1OUT
C2OUT
Q751-Q760 Y DRIVE
YY1OUT
YY2OUT
FROM MIXER BOARD (2/3)
REC U
Q761 BUFFER
CF704 BPF
Q762 BUFFER
Q763-Q768 U AMP
VR704
MBSEL
IC702 VIDEO SW
Q769-Q778 U DRIVE
U1OUT
U2OUT
REC V
Q779 BUFFER
CF705 BPF
Q780 BUFFER
Q781-Q786 V AMP
VR705
IC703 VIDEO SW
Q787-Q796 V DRIVE
V1OUT
V2OUT
ADVSC
ADVSY
Q797,Q798 AMP
Q799 MIX
Q800-Q803 DRIVE
ADREF2
Q804-Q807 DRIVE
ADREF1
IC713
IC714
VR708
CN2
Y1OUT
Y2OUT
CMP1OUT
CMP2OUT
C1OUT
C2OUT
YY1OUT
YY2OUT
U1OUT
U2OUT
V1OUT
V2OUT
ADREF2
ADREF1
TO MOTHER BOARD

BLOCK DIAGRAM OF CG BOARD

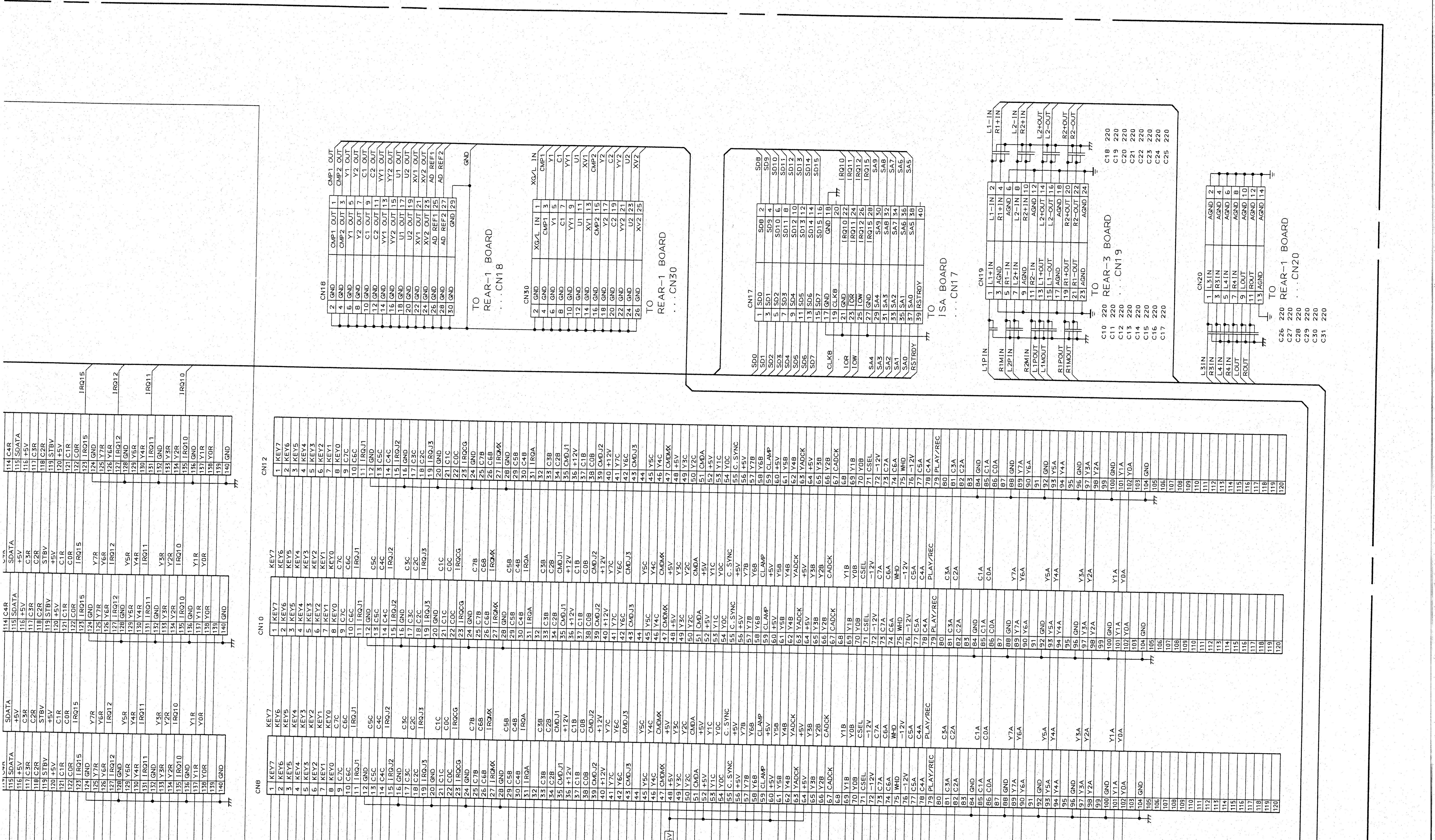

IC52,IC55 D-FFs
IC46,IC49 D-FFs
IC53,IC56 D-FFs
IC47,IC50 D-FFs
IC54,IC57 D-FFs
IC48,IC51 D-FFs
IC89 BUS BUFFER
IC60 DEC CG
IC59 GSP RW
IC66
IC67
IC62 GRAPHIC SYSTEM PROCESSOR
IC65
IC64
IC63
X1
IC61
IC106,IC107 BUS BUFFERs
IC97,IC98 BUS BUFFERs
IC98
IC99-IC102 TRANSCEIVERs
IC2-IC4,IC6-IC20 IC91-IC93 VRAMs
IC74-IC81 DRAMs
IC68 VRAM RAS
IC69 GSP MD
IC70 DRAM RAS
IC72
IC73
IC84-IC88 MASK GATE LOGIC
IC71 UV WR
IC22,IC26,IC30 LATCH
IC21,IC25 IC29,IC34 D-FFs
IC33
IC24,IC28,IC32 LATCH
IC23,IC27,IC31 SRAMs
IC35-IC42 LINE MEMORIES
IC43 SCAN CONVERTER
IC44 VOLTAGE DETECTOR
IC82 LATCH
IC90 D-FFs
IC83 D-FFs
IC103 D-FFs
IC104 JK-FFs
IC105
IC88
IC45
CN1
CN2
TO MOTHER BOARD
SD0-15
SD1-15
LAD0-31
LAD16-31
LAD0-15
LAD8-31
LAD0-7
CBAH
CBAL
RAS
CLK1
CLK2
CAMD
PGMD
ALTCH
HSYNC
HCS
RESET
CLKIN
HOE
HDST
HRDY
HREAD
HWRITE
RCA2-11
WE
CAS0-4
TP/OE
HINT
VSYNC
VCK
SCLK
PLTL
PLTW
RAS0-3
TRA
TRB
+5V
+5VB
SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 SD8 SD9 SD10 SD11 SD12 SD13 SD14 SD15
SA9 SA8 SA7 SA6 SA5 SA4 SA3 SA2 SA1 SA0 IOR IOW CLK8
IRQ CG
FIELD HD
Y0R Y1R Y2R Y3R Y4R Y5R Y6R Y7R C0R C1R C2R C3R C4R C5R C6R C7R
Y0C Y1C Y2C Y3C Y4C Y5C Y6C Y7C C0C C1C C2C C3C C4C C5C C6C C7C KEY0 KEY1 KEY2 KEY3 KEY4 KEY5 KEY6 KEY7
DT0 DT1 DT2 DT3 DT4 STBCG ADD1 ADD2 VP HS CLK14 CLK28
(Y) (U) (V) (A)

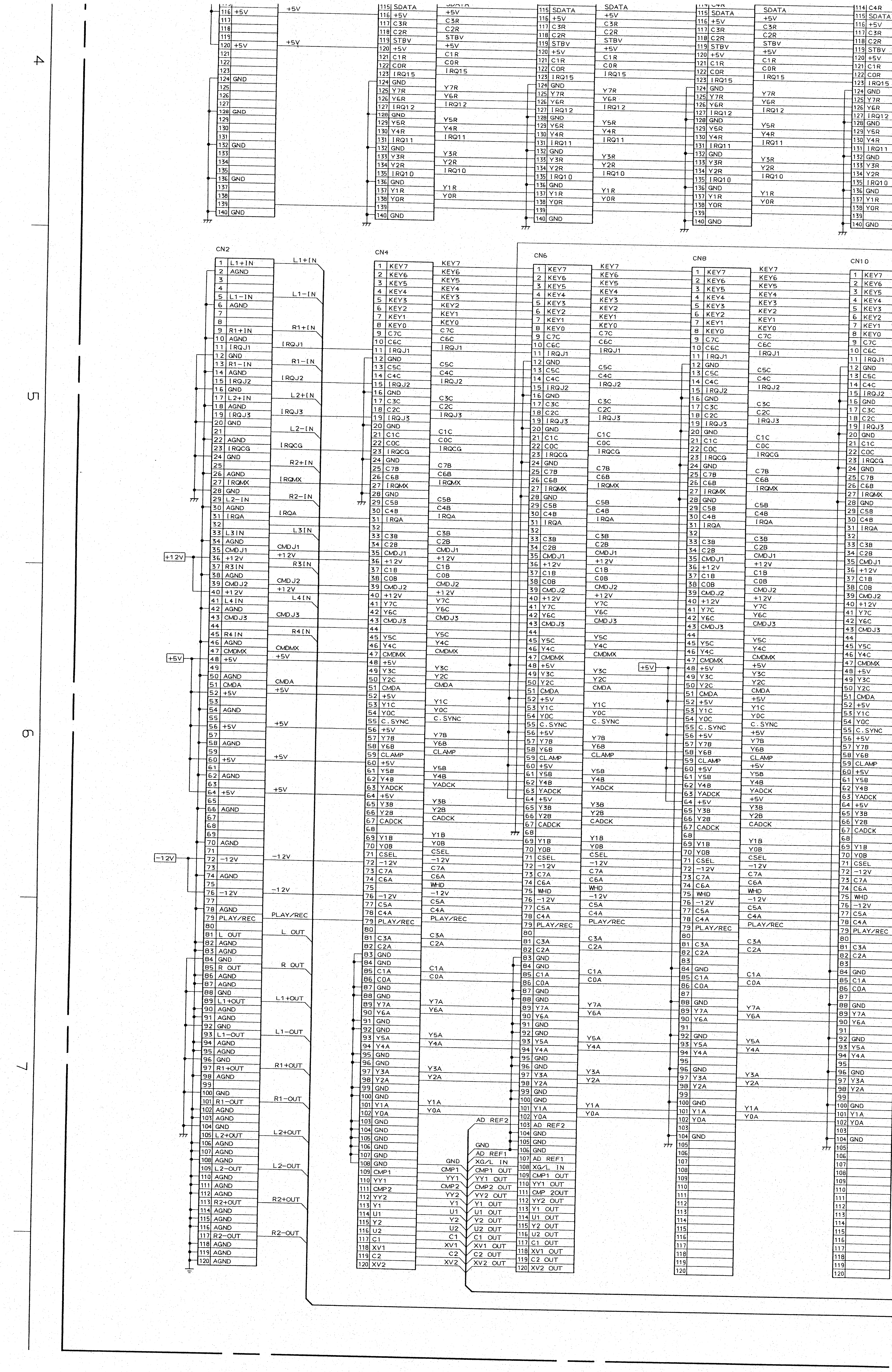

4
3
2
1
A
B
C
CN1
(AUDIO)
CN3
(INPUT)
CN5
(MIX)
CN7
(CG)
CN9
(JPEG/SCSI-2)
+5V
+12V
EMPTY
STBC
STBD
TC OUT
TC IN
PSDO
PSCLK
SLATCH
SCS
PSD1
FIELD P


(CG)
CN7
(JPEG/SCSI-2)
CN9
(JPEG/SCSI-1)
CN11
CN16
TO
REAR-2 BOARD
...CN16
CN15
TO
REAR-2 BOARD
...CN15
CN14
TO
POWER BOARD
...CN2
CN27
TO
REAR-2 BOARD
...CN27
CN13
TO
REAR-1 BOARD
...CN13
+12V
-12V
+5V
SREQ1
SREQ2
SREQ3
TRM5V3
IOR
IOW
IRQ10
IRQ11
IRQ12
IRQ15
RSTRDY
CLK8

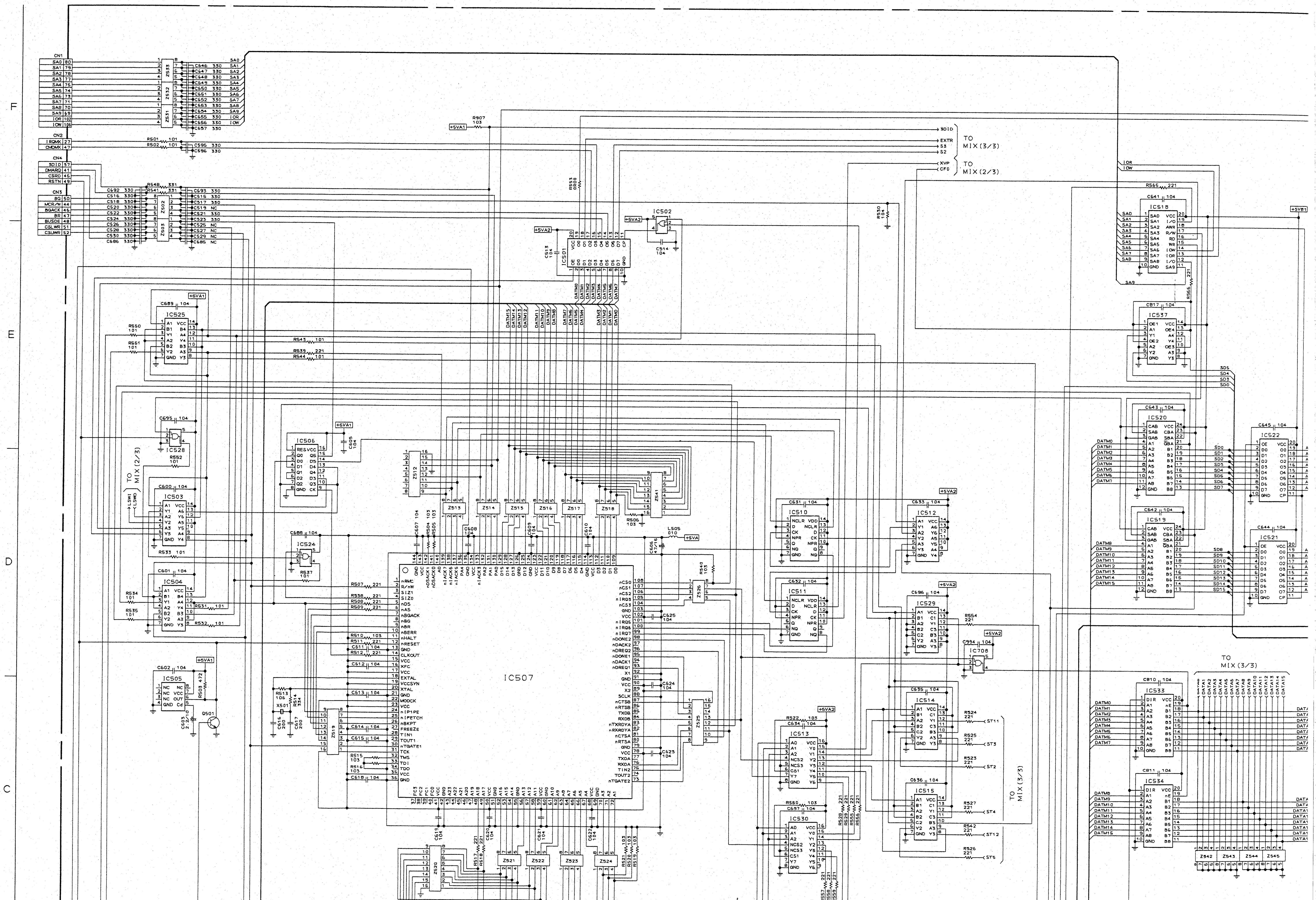
SCHEMATIC DIAGRAM OF MOTHE

DIAGRAM OF MOTHER BOARD

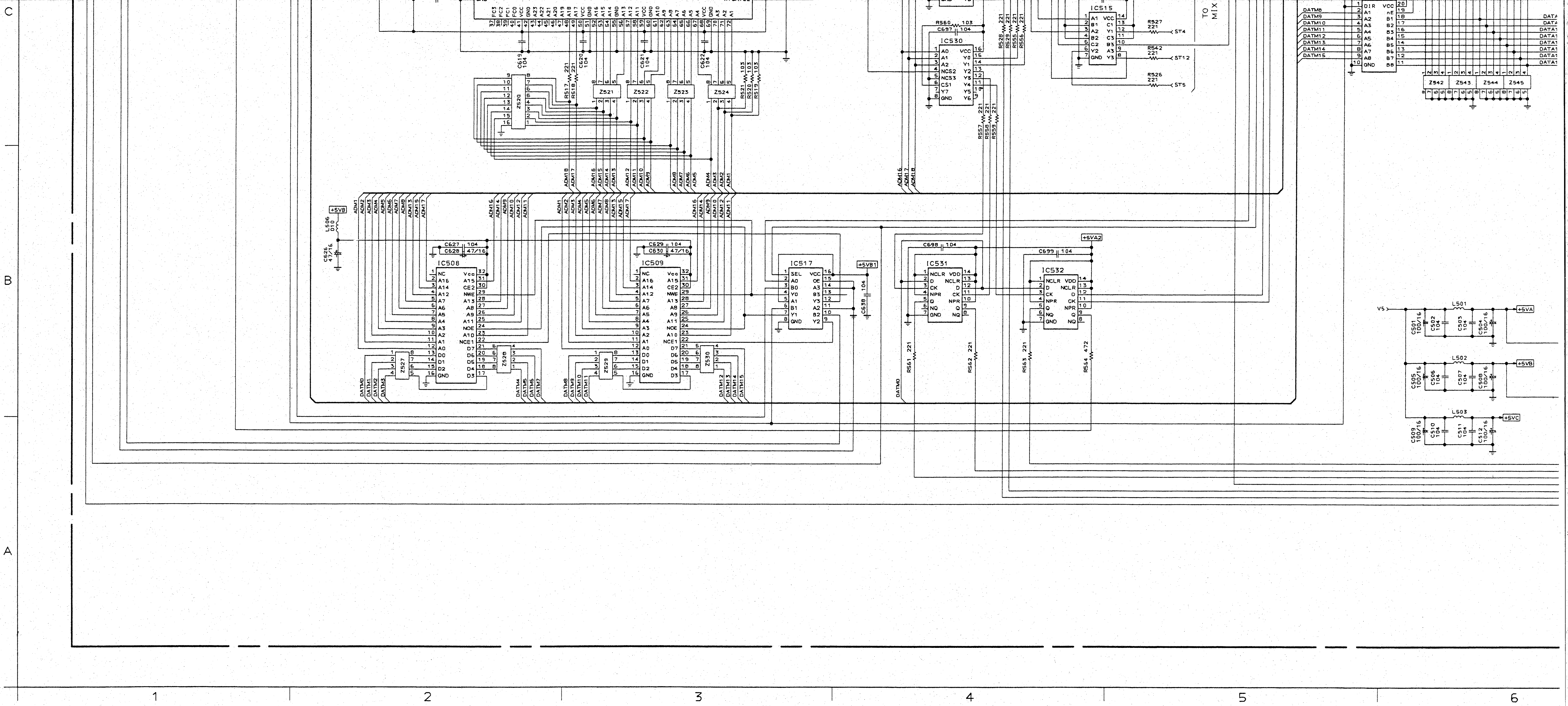

CN18
TO REAR-1 BOARD ...CN18
CN30
TO REAR-1 BOARD ...CN30
CN17
TO ISA BOARD ...CN17
CN19
TO REAR-3 BOARD ...CN19
CN20
TO REAR-1 BOARD ...CN20
C18 220
C19 220
C20 220
C21 220
C22 220
C23 220
C24 220
C25 220
C10 220
C11 220
C12 220
C13 220
C14 220
C15 220
C16 220
C17 220
C26 220
C27 220
C28 220
C29 220
C30 220
C31 220
IRQ15
IRQ12
IRQ11
IRQ10
CN12
CN10
CN8


CN2
CN4
CN6
CN8
CN10
+12V
+5V
-12V
4
5
6
7

SCHEMATIC DIAGRAM OF MIXE



F
E
D
C
CN1
CN2
CN4
CN3
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
IOR
IOW
IRQMX
CMDMX
3D1D
DMARQ
CSRD
RSTN
BG
MCR/W
BGACK
BR
BUSDE
CSLWR
CSUWR
Z533
Z532
Z531
Z502
Z503
+5VA1
+5VA2
+5VB1
+5VA
R907 103
3D1D
EXTR
S3
S2
TO MIX(3/3)
XVP
CF0
TO MIX(2/3)
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC510
IC511
IC512
IC513
IC514
IC515
IC518
IC519
IC520
IC521
IC522
IC524
IC525
IC528
IC529
IC530
IC533
IC534
IC537
IC708
Z512
Z513
Z514
Z515
Z516
Z517
Z518
Z519
Z520
Z521
Z522
Z523
Z524
Z525
Z526
Z541
Z542
Z543
Z544
Z545
Q501
X501
L505 010
TO MIX(2/3)
LSW1
LSW0
ST11
ST3
ST2
ST4
ST12
ST5
TO MIX(3/3)
DATM0
DATM1
DATM2
DATM3
DATM4
DATM5
DATM6
DATM7
DATM8
DATM9
DATM10
DATM11
DATM12
DATM13
DATM14
DATM15
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15

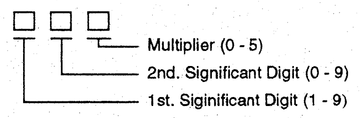

C
B
A
1
2
3
4
5
6
IC508
IC509
IC515
IC517
IC530
IC531
IC532
Z520
Z521
Z522
Z523
Z524
Z527
Z528
Z529
Z530
Z542
Z543
Z544
Z545
+5VB
+5VA2
+5VB1
+5VA
+5VB
+5VC
V5
L501
L502
L503
L506
TO MIX
ST4
ST12
ST5

<Index>

MIXER BOARD (1/3)

IC501	E3	IC520	E5	IC704	D8	Q501	C1	Q718	D9	Q736	D9	Q754	F11	Q772	C11	Q790	B11	Q808	E9
IC502	F3	IC521	D6	IC705	E8	Q701	E8	Q719	D9	Q737	D9	Q755	F11	Q773	C11	Q791	B11		
IC503	D1	IC522	E6	IC706	B9	Q702	E8	Q720	D9	Q738	D9	Q756	F10	Q774	C10	Q792	B10	D205	A10
IC504	D1	IC524	D2	IC707	E8	Q703	E9	Q721	D9	Q739	D9	Q757	F11	Q775	C11	Q793	B11		
IC505	C1	IC525	E1	IC708	D5	Q704	E9	Q722	D9	Q740	D9	Q758	E11	Q776	C11	Q794	B11		
IC506	D2	IC528	E1	IC709	E10	Q705	E9	Q723	D9	Q741	D10	Q759	F11	Q777	C11	Q795	B11		
IC507	D3	IC529	D4	IC710	D10	Q706	E9	Q724	D10	Q742	D11	Q760	E11	Q778	C11	Q796	B11		
IC508	B2	IC530	C4	IC711	D10	Q707	E9	Q725	D11	Q743	D11	Q761	C8	Q779	B8	Q797	A9		
IC509	B3	IC531	B4	IC712	C10	Q708	E10	Q726	D11	Q744	D11	Q762	C8	Q780	B8	Q798	A10		
IC510	D4	IC532	B4	IC713	A9	Q709	E11	Q727	D11	Q745	D11	Q763	C9	Q781	B9	Q799	A10		
IC511	D4	IC533	C5	IC714	A10	Q710	E11	Q728	D11	Q746	C10	Q764	C9	Q782	B9	Q800	A10		
IC512	D4	IC534	C5	IC851	B8	Q711	E11	Q729	D10	Q747	C11	Q765	C9	Q783	B9	Q801	A10		
IC513	C4	IC535	E6			Q712	E11	Q730	D11	Q748	C11	Q766	C9	Q784	B9	Q802	A11		
IC514	C4	IC536	D6			Q713	E10	Q731	D11	Q749	C11	Q767	C9	Q785	B9	Q803	A11		
IC515	C4	IC537	E5			Q714	E11	Q732	D11	Q750	C11	Q768	C9	Q786	B9	Q804	A11		
IC517	B3	IC701	B8			Q715	E11	Q733	D11	Q751	F10	Q769	C10	Q787	B10	Q805	A11		
IC518	F5	IC702	C10			Q716	E11	Q734	D8	Q752	F11	Q770	C11	Q788	B11	Q806	A11		
IC519	D5	IC703	B10			Q717	E11	Q735	D9	Q753	F11	Q771	C11	Q789	B11	Q807	A11		

Note: **The value indicated in the schematic diagram shoul**

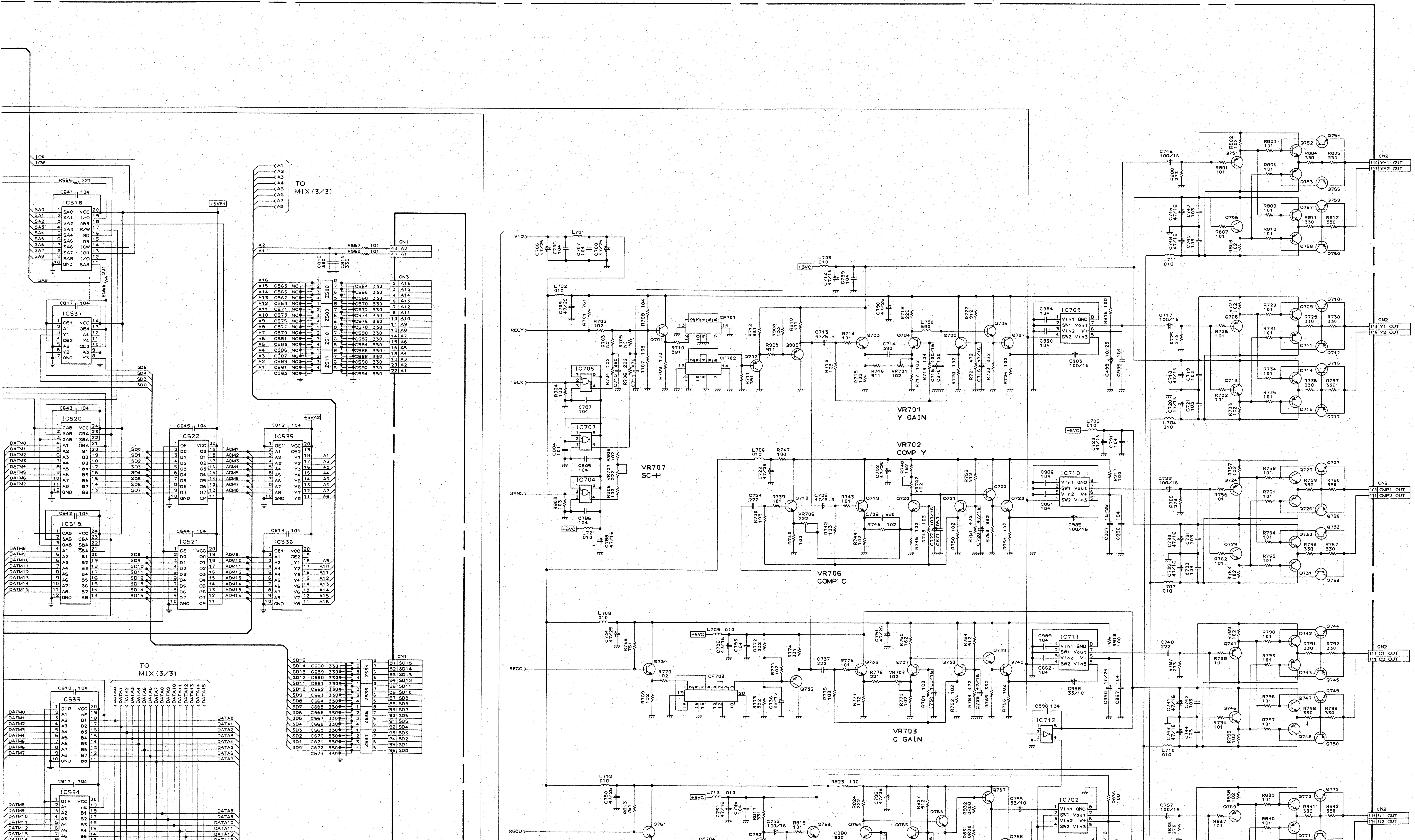

Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

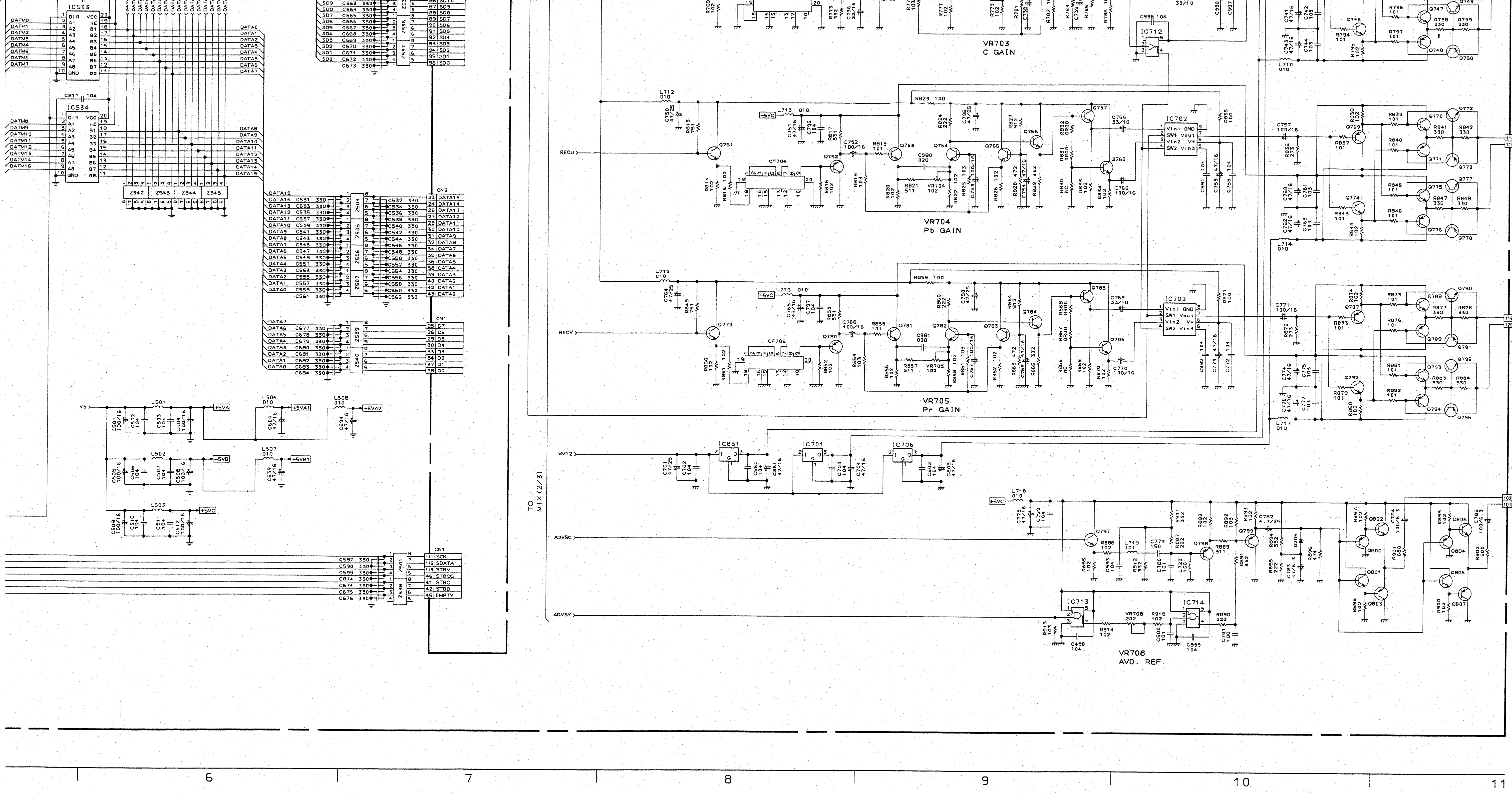
<Example>

For Resistor:
330 → 33 x 10^0 = 33 Ω
561 → 56 x 10^1 = 560 Ω
123 → 12 x 10^3 = 12k Ω
0R00 = 0 Ω

For Capacitor:
820 → 82 x 10^0 = 82 pF
102 → 10 x 10^2 = 1000 pF
104 → 10 x 10^4 = 100000 pF
The suffix attached to capacitan
a type of capacitor.

C DIAGRAM OF MIXER (1/3) BOARD


IC518
IC537
IC520
IC519
IC522
IC521
IC535
IC536
IC533
IC534
Z508
Z509
Z510
Z511
Z534
Z535
Z536
Z537
CN1
CN3
CN2
TO MIX (3/3)
+5VB1
+5VA2
+5VC
IOR
IOW
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
DATM0
DATM1
DATM2
DATM3
DATM4
DATM5
DATM6
DATM7
DATM8
DATM9
DATM10
DATM11
DATM12
DATM13
DATM14
DATM15
ADM1
ADM2
ADM3
ADM4
ADM5
ADM6
ADM7
ADM8
ADM9
ADM10
ADM11
ADM12
ADM13
ADM14
ADM15
ADM16
A1
A2
A3
A4
A5
A6
A7
A8
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
DATA0
DATA1
DATA2
DATA3
DATA4
DATA5
DATA6
DATA7
DATA8
DATA9
DATA10
DATA11
DATA12
DATA13
V12
RECY
BLK
SYNC
RECC
RECU
IC705
IC707
IC704
IC709
IC710
IC711
IC712
IC702
CF701
CF702
CF703
CF704
VR701 Y GAIN
VR702 COMP Y
VR703 C GAIN
VR706 COMP C
VR707 SC-H
Q701
Q702
Q703
Q704
Q705
Q706
Q707
Q708
Q709
Q710
Q711
Q712
Q713
Q714
Q715
Q716
Q717
Q718
Q719
Q720
Q721
Q722
Q723
Q724
Q725
Q726
Q727
Q728
Q729
Q730
Q731
Q732
Q733
Q734
Q735
Q736
Q737
Q738
Q739
Q740
Q741
Q742
Q743
Q744
Q745
Q746
Q747
Q748
Q749
Q750
Q751
Q752
Q753
Q754
Q755
Q756
Q757
Q758
Q759
Q760
Q761
Q762
Q763
Q764
Q765
Q766
Q767
Q768
Q769
Q770
Q771
Q772
Q808
Vin1 GND
SW1 Vout
Vin2 V+
SW2 Vin3
YV1 OUT
YV2 OUT
Y1 OUT
Y2 OUT
CMP1 OUT
CMP2 OUT
C1 OUT
C2 OUT
U1 OUT
U2 OUT

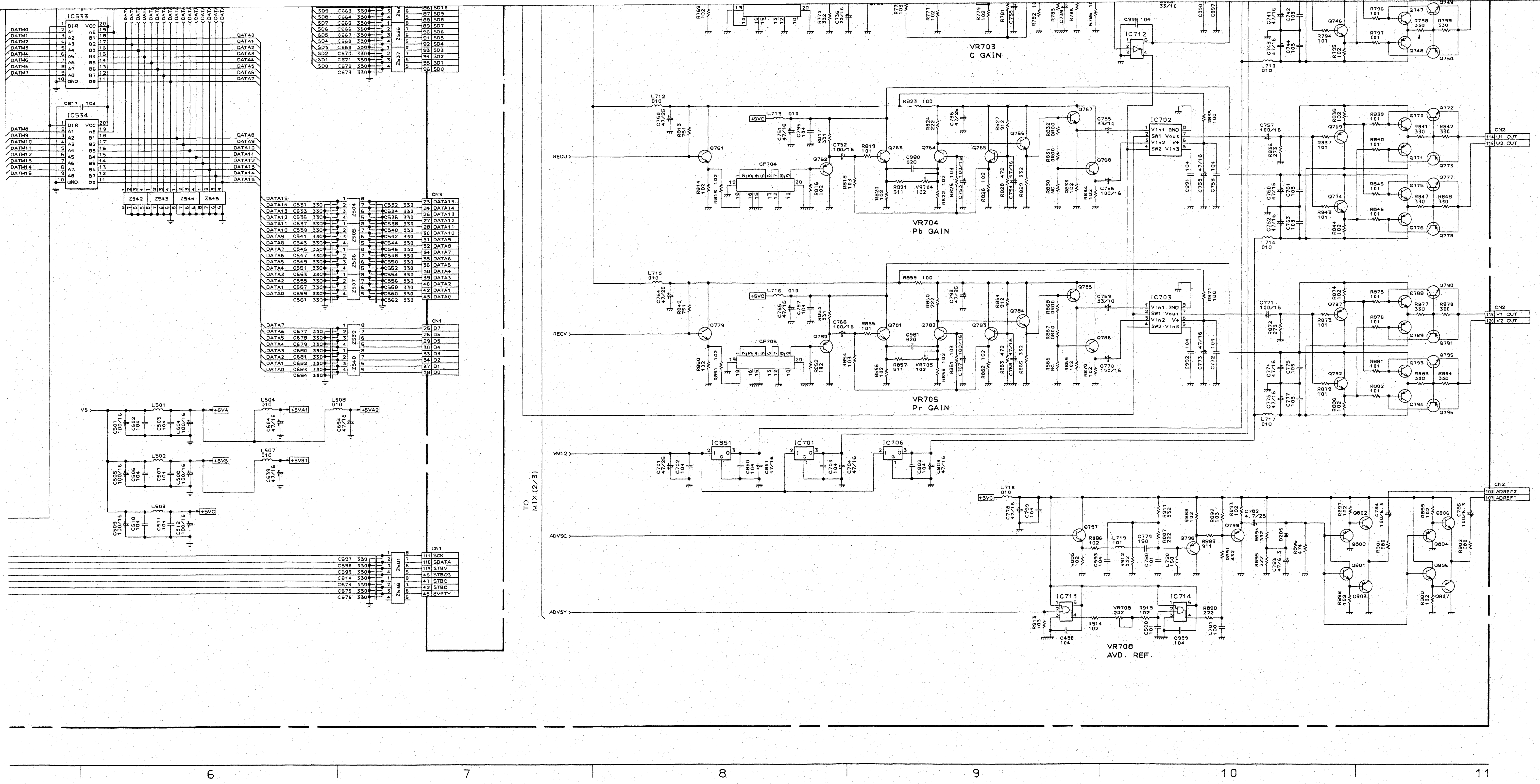

IC533
IC534
DATA0
DATA15
DATM0
DATM15
CN1
CN2
CN3
VR703
C GAIN
VR704
Pb GAIN
VR705
Pr GAIN
VR708
AVD. REF.
IC702
IC703
IC712
IC713
IC714
IC851
IC701
IC706
RECU
RECV
VM12
ADVSC
ADVSY
TO
MIX (2/3)
V5
+5VA
+5VA1
+5VA2
+5VB
+5VB1
+5VC
U1 OUT
U2 OUT
V1 OUT
V2 OUT
ADREF2
ADREF1
SCK
SDATA
STBV
STBCG
STBC
STBD
EMPTY
6
7
8
9
10
11

e: The value indicated in the schematic diagram should be read as follows:

Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

xample >

or Resistor:	For Capacitor:
30 → 33 x 10^0 = 33 Ω	820 → 82 x 10^0 = 82 pF
61 → 56 x 10^1 = 560 Ω	102 → 10 x 10^2 = 1000 pF = 0.001 µF
23 → 12 x 10^3 = 12k Ω	104 → 10 x 10^4 = 100000 pF = 0.1 µF
R00 = 0 Ω	The suffix attached to capacitance indicates a type of capacitor.


IC533
IC534
DATM0
DATM15
DATA0
DATA15
CN3
CN1
CN2
Z542
Z543
Z544
Z545
VR703
C GAIN
VR704
Pb GAIN
VR705
Pr GAIN
VR706
AVD. REF.
IC702
IC703
IC712
IC713
IC714
IC851
IC701
IC706
CF704
CF705
RECU
RECV
VM12
ADVSC
ADVSY
V5
+5VA
+5VA1
+5VA2
+5VB
+5VB1
+5VC
TO MIX (2/3)
U1 OUT
U2 OUT
V1 OUT
V2 OUT
ADREF2
ADREF1
SCK
SDATA
STBV
STBCG
STBC
STBD
EMPTY
6
7
8
9
10
11

e: The value indicated in the schematic diagram should be read as follows:

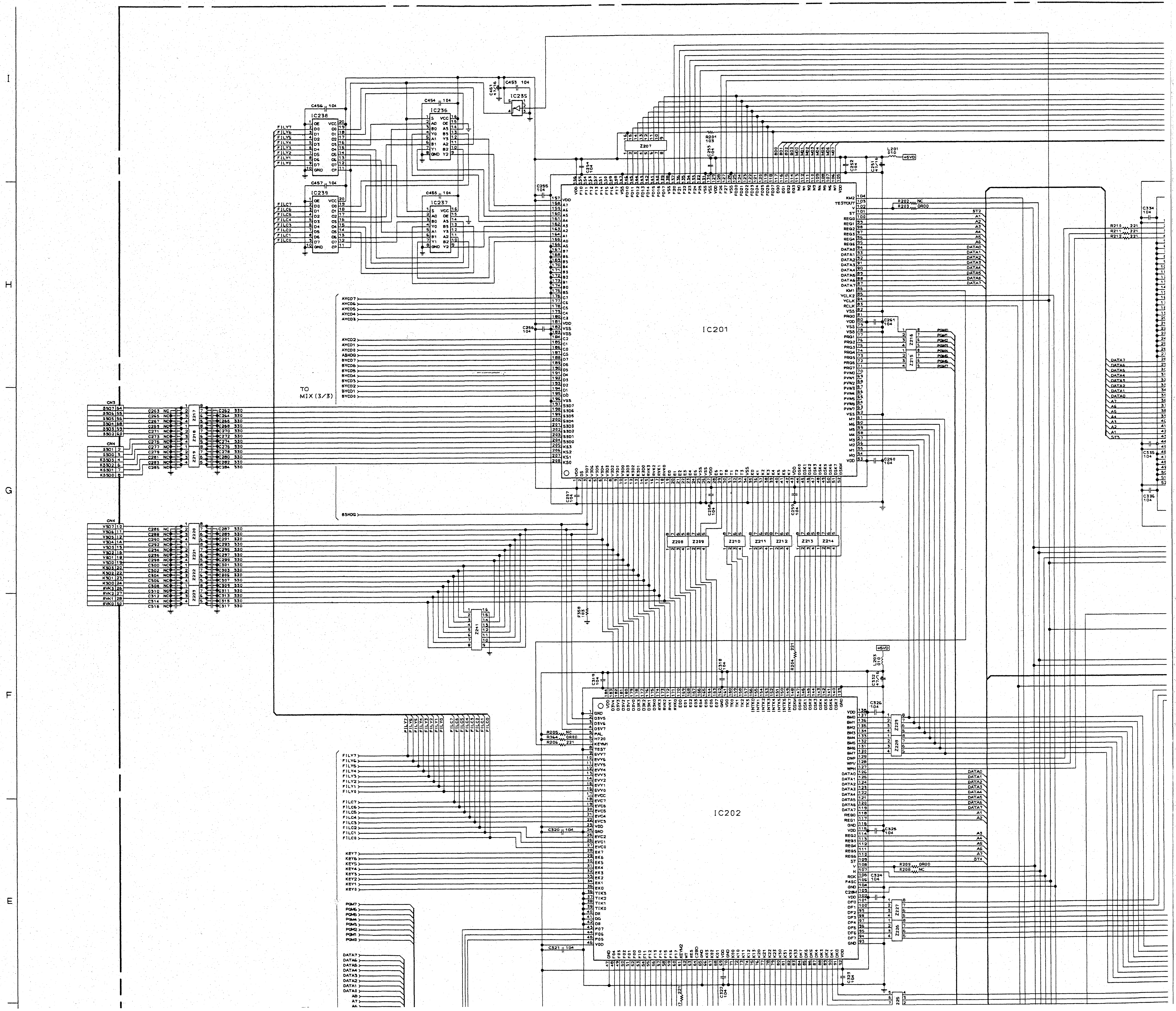
□□□
- Multiplier (0 - 5)
- 2nd. Significant Digit (0 - 9)
- 1st. Siginificant Digit (1 - 9)

xample >

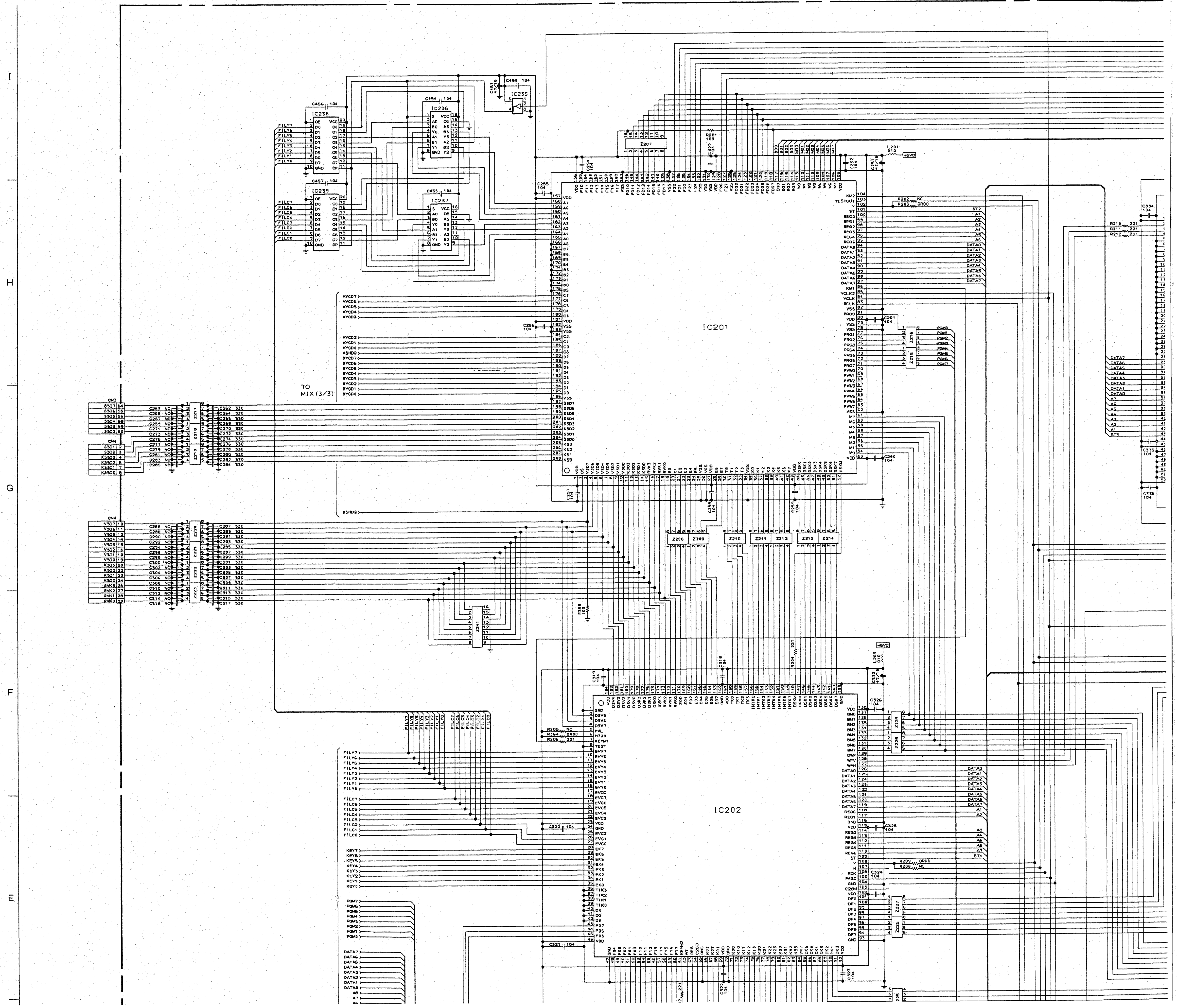
or Resistor:
30 → 33×10^0 = 33 Ω
61 → 56×10^1 = 560 Ω
23 → 12×10^3 = 12k Ω
R00 = 0 Ω

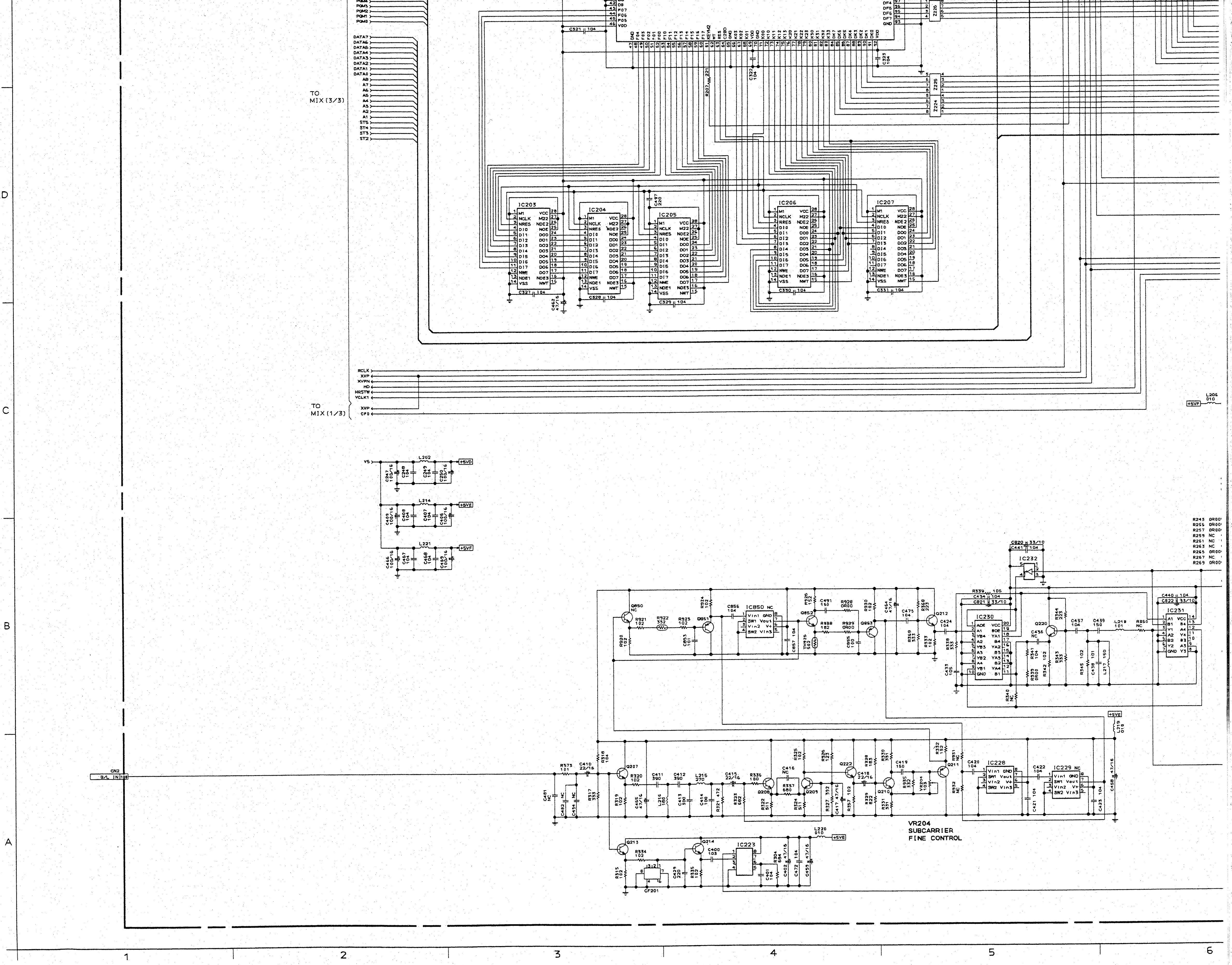
For Capacitor:
820 → 82×10^0 = 82 pF
102 → 10×10^2 = 1000 pF = 0.001 µF
104 → 10×10^4 = 100000 pF = 0.1 µF
The suffix attached to capacitance indicates a type of capacitor.

SCHEMATIC DIAGRAM OF MIXER (2

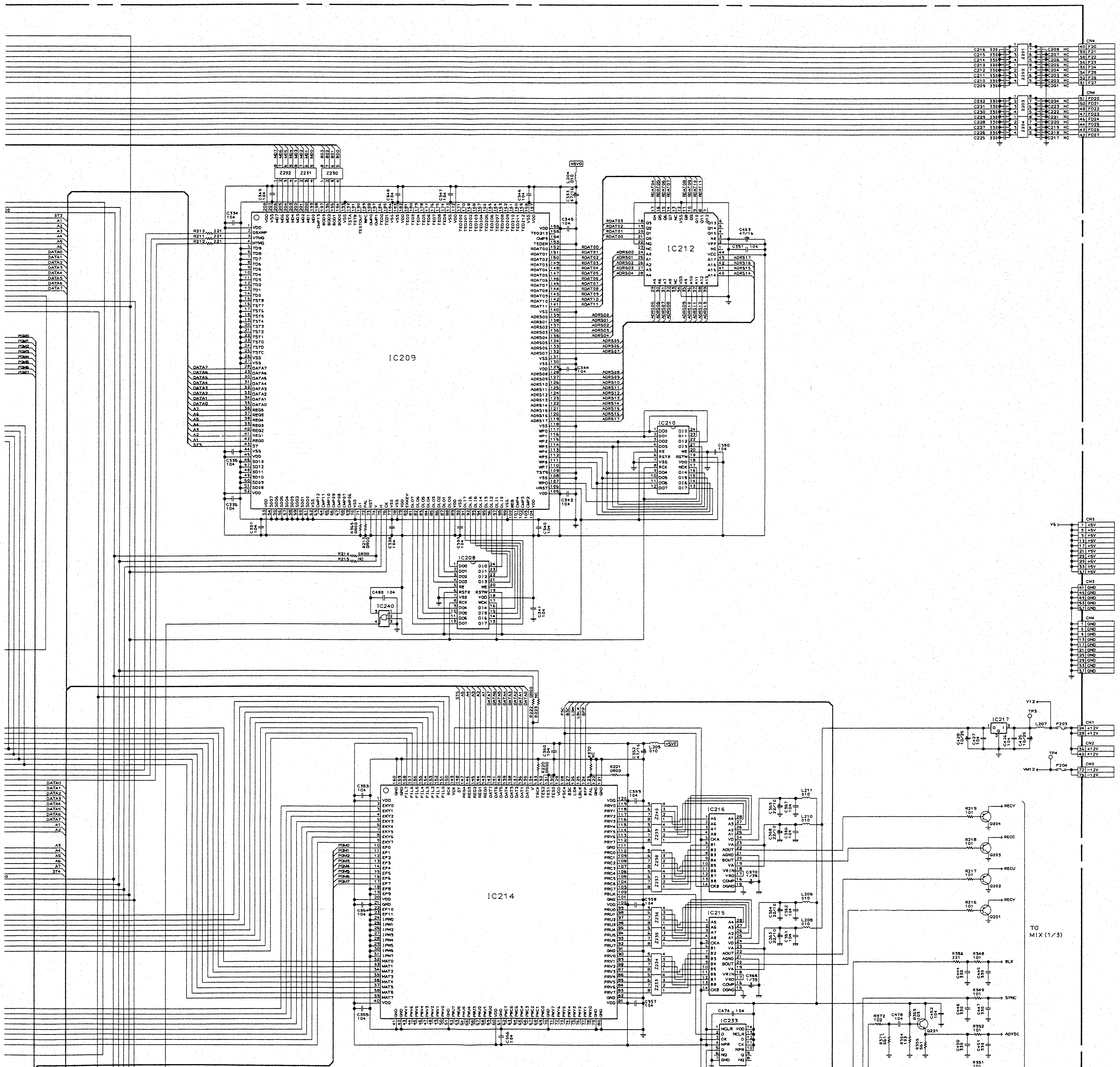

I
H
G
F
E
IC201
IC202
IC235
IC236
IC237
IC238
IC239
Z207
Z208
Z209
Z210
Z211
Z212
Z213
Z214
Z215
Z216
Z217
Z218
Z219
Z220
Z221
Z222
Z223
Z225
Z226
Z227
Z228
Z229
Z241
CN3
CN4
TO
MIX (3/3)
+5VD
FILY7
FILY6
FILY5
FILY4
FILY3
FILY2
FILY1
FILY0
FILC7
FILC6
FILC5
FILC4
FILC3
FILC2
FILC1
FILC0
AYCD7
AYCD6
AYCD5
AYCD4
AYCD3
AYCD2
AYCD1
AYCD0
BSHDG
BYCD7
BYCD6
BYCD5
BYCD4
BYCD3
BYCD2
BYCD1
BYCD0
KEY7
KEY6
KEY5
KEY4
KEY3
KEY2
KEY1
KEY0
PGM7
PGM6
PGM5
PGM4
PGM3
PGM2
PGM1
PGM0
DATA7
DATA6
DATA5
DATA4
DATA3
DATA2
DATA1
DATA0
ST2
ST3
ST4

SCHEMATIC DIAGRAM OF MIXER (2


I
H
G
F
E
IC201
IC202
IC235
IC236
IC237
IC239
Z207
TO MIX (3/3)
CN3
CN4
+5VD


TO
MIX(3/3)
DATA7
DATA6
DATA5
DATA4
DATA3
DATA2
DATA1
DATA0
IC203
IC204
IC205
IC206
IC207
Z226
Z225
Z224
RCLK
XVP
XVPN
HD
HRSTW
YCLK1
XVP
CF0
TO
MIX(1/3)
V5
L202
+5VD
L214
+5VE
L221
+5VF
IC232
IC230
IC231
IC850 NC
Q850
Q851
Q852
Q853
Q212
Q220
+5VE
CN2
S/L IN
Q207
Q208
Q209
Q222
Q210
Q211
IC228
IC229 NC
Q213
Q214
IC223
CF201
L220
+5VE
VR204
SUBCARRIER
FINE CONTROL
D
C
B
A
1
2
3
4
5
6

ιGRAM OF MIXER (2/3) BOARD

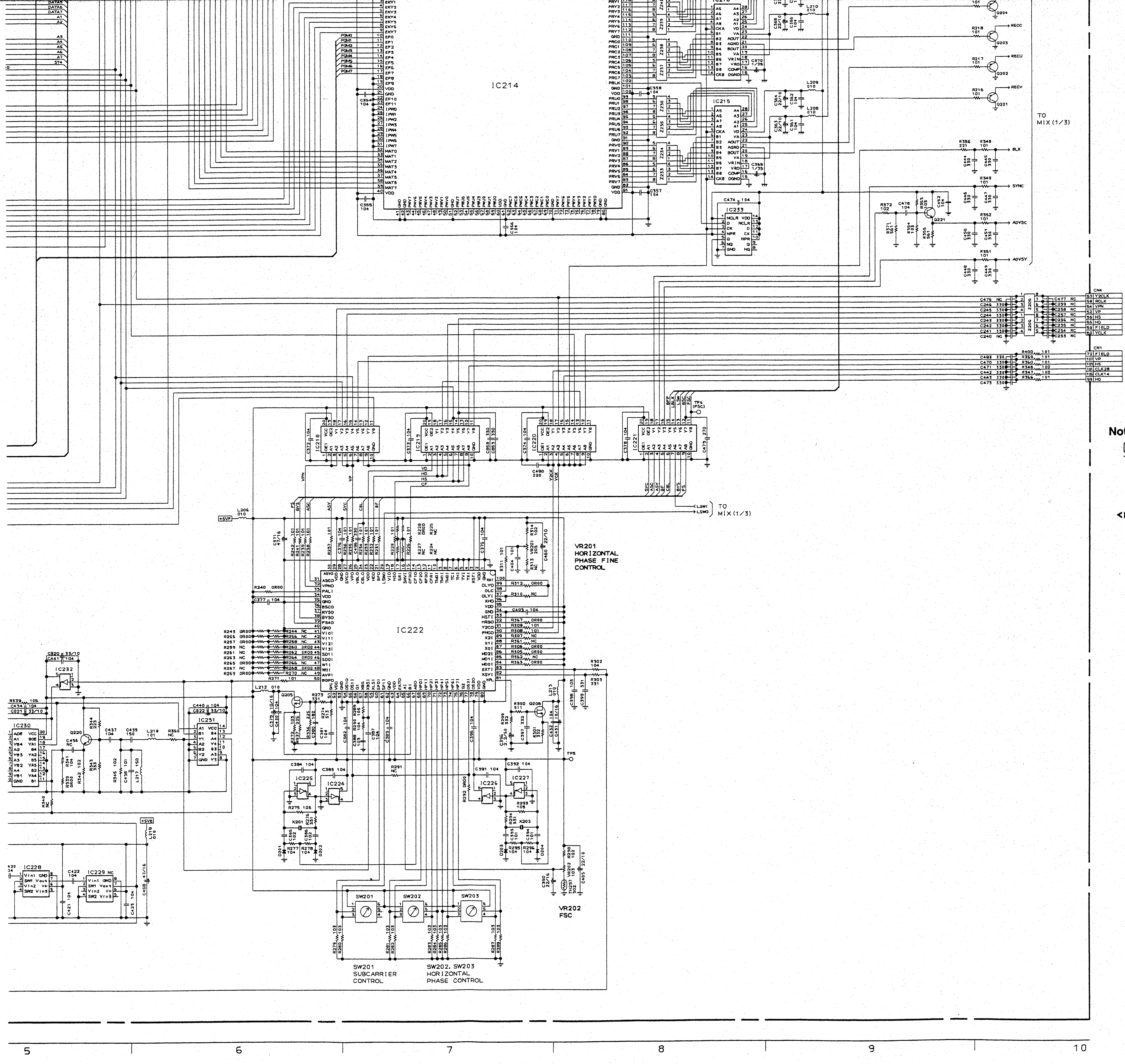

IC209
IC212
IC210
IC208
IC240
IC214
IC216
IC215
IC233
IC217
CN1
CN2
CN3
CN4
CN5
+5VD
V12
VM12
TP3
TP4
RECY
RECC
RECU
RECV
BLK
SYNC
ADVSC
TO MIX (1/3)

<Index>

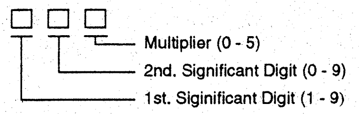
MIXER BOARD (2/3)

IC201	H4
IC202	E4
IC203	D3
IC204	D3
IC205	D4
IC206	D4
IC207	D5
IC208	G7
IC209	H7
IC210	G8
IC212	H8
IC214	E7
IC215	E8
IC216	E8
IC217	F10
IC218	C6
IC219	C7
IC220	C7
IC221	C8
IC222	B7
IC223	A4
IC224	B6
IC225	B6
IC226	B7
IC227	B7
IC228	A5
IC230	B5
IC231	B6
IC232	B5
IC233	D8
IC235	I3
IC236	I3
IC237	H3
IC238	I2
IC239	H2
IC240	F7
Q201	E10
Q202	E10
Q203	E10
Q204	E10
Q205	B6
Q206	B7
Q207	A3
Q208	A4
Q209	A4
Q210	A5
Q211	A5
Q212	B5
Q213	A3
Q214	A4
Q220	B5
Q221	D9
Q222	A4
Q851	B4
Q852	B4
Q853	B4
D201	A6
D202	A6
D203	A7
D204	A7

D201	A6
D202	A6
D203	A7
D204	A7


IC214
IC215
IC233
TO
MIX (1/3)
REC
RECU
RECV
BLK
SYNC
ADVSC
ADVSY
CN4
CN1
IC218
IC219
IC220
IC221
IC222
TO
MIX (1/3)
VR201
HORIZONTAL
PHASE FINE
CONTROL
IC230
IC231
IC232
IC224
IC225
IC226
IC227
IC228
IC229
SW201
SW202
SW203
VR202
FSC
SW201
SUBCARRIER
CONTROL
SW202, SW203
HORIZONTAL
PHASE CONTROL
5
6
7
8
9
10

Note: **The value indicated in the schematic diagram should be read as follows:**


Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

<Example>

For Resistor:

330 ⟶ 33×10^0 = 33 Ω

561 ⟶ 56×10^1 = 560 Ω

123 ⟶ 12×10^3 = 12k Ω

0R00 = 0 Ω

For Capacitor:

820 ⟶ 82×10^0 = 82 pF

102 ⟶ 10×10^2 = 1000 pF = 0.001 µF

104 ⟶ 10×10^4 = 100000 pF = 0.1 µF

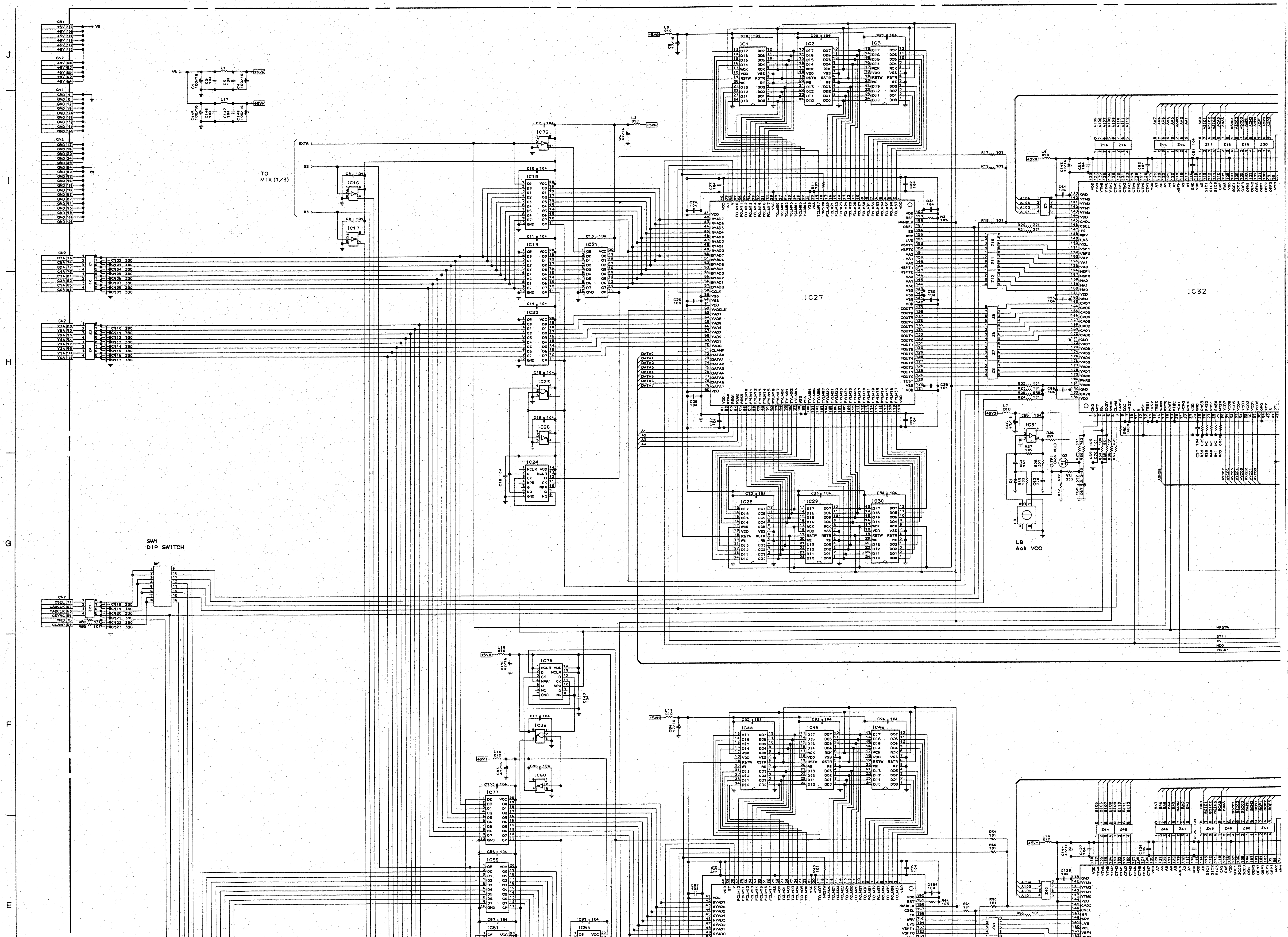
The suffix attached to capacitance indicates a type of capacitor.

SCHEMATIC DIAGRAM OF MIXE

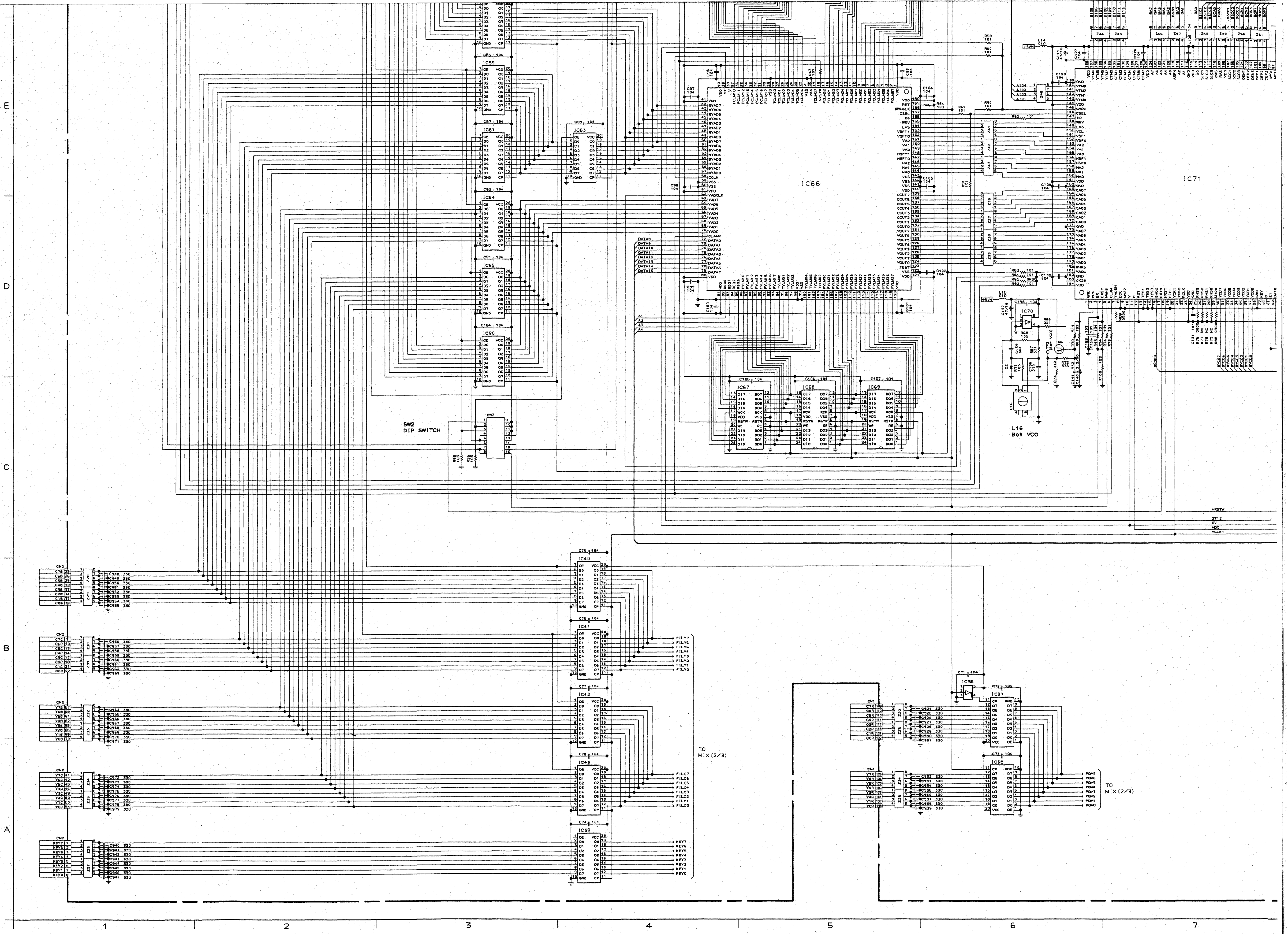
<Index>

MIXER BOARD (3/3)

IC1	J5
IC2	J5
IC3	J5
IC4	I12
IC5	H12
IC6	I11
IC7	H11
IC8	I11
IC9	H11
IC10	I10
IC11	H10
IC12	I10
IC13	H10
IC14	I9
IC15	H9
IC16	I2
IC17	I2
IC18	I3
IC19	I3
IC21	I4
IC22	H3
IC23	H3
IC24	G3
IC25	F3
IC26	H3
IC27	H5
IC28	G5
IC29	G5
IC30	G5
IC31	H6
IC32	H7
IC33	I8
IC34	H8
IC35	G8
IC36	B6
IC37	B6
IC38	A6
IC39	A4
IC40	B4
IC41	B4
IC42	B4
IC43	A4
IC44	F5
IC45	F5
IC46	F5
IC47	E12
IC48	D12
IC49	E11
IC50	D11
IC51	E11
IC52	D11
IC53	E10
IC54	D10
IC55	E10
IC56	D10
IC57	E9
IC58	D9
IC59	E3
IC60	F3
IC61	E3
IC63	E4
IC64	D3
IC65	D3
IC66	E5
IC67	C5
IC68	C5
IC69	C5
IC70	D6
IC71	E7
IC73	E8
IC74	D8
IC75	I3

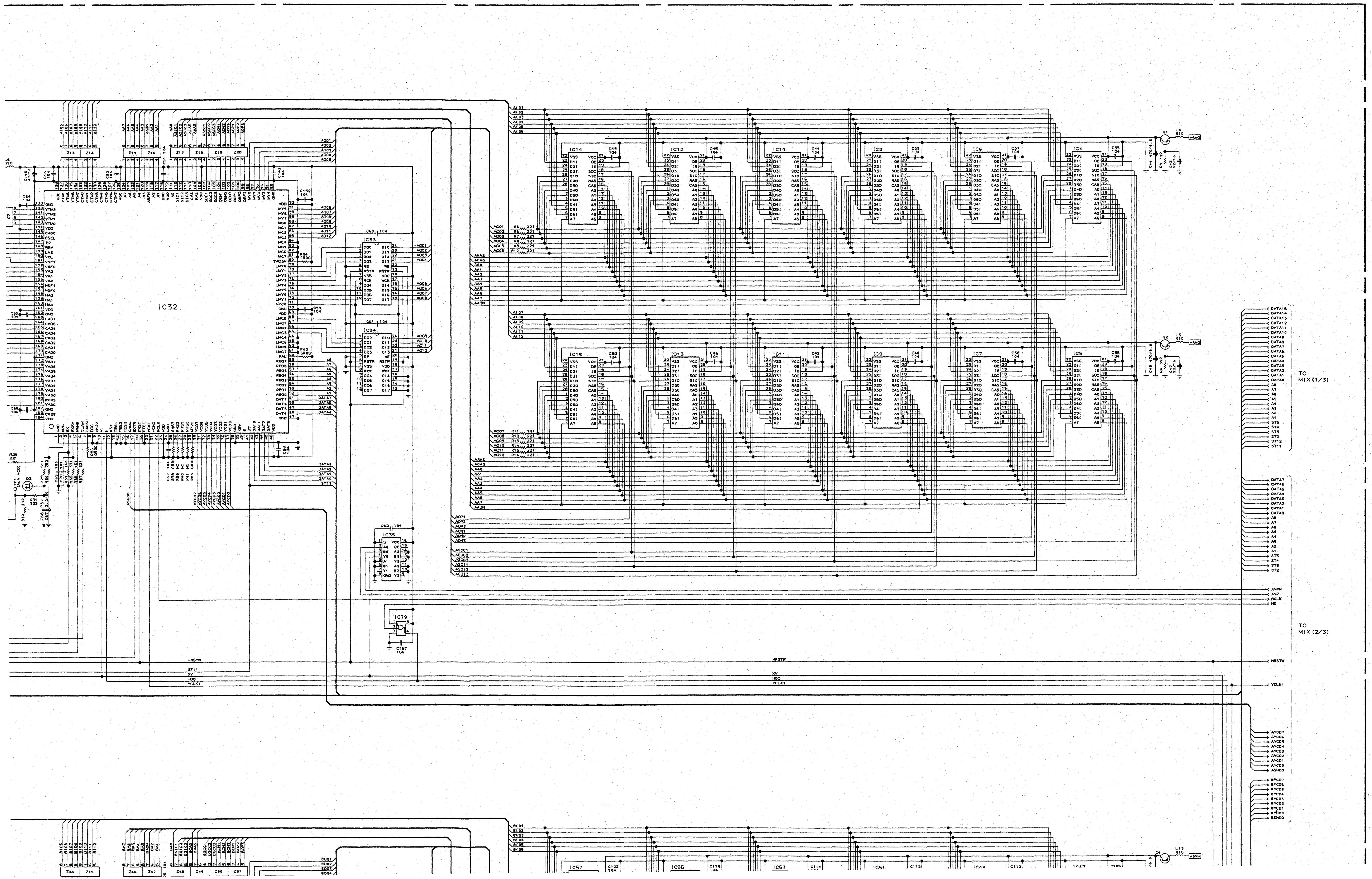

J
I
H
G
F
E
CN1
CN2
CN3
TO MIX (1/3)
EXTR
S2
S3
SW1
DIP SWITCH
IC1
IC2
IC3
IC16
IC17
IC18
IC19
IC21
IC22
IC23
IC24
IC25
IC26
IC27
IC28
IC29
IC30
IC31
IC32
IC44
IC45
IC46
IC59
IC60
IC61
IC63
IC75
IC76
IC77
L8
A0h VCO
+5VG
+5VH
V5

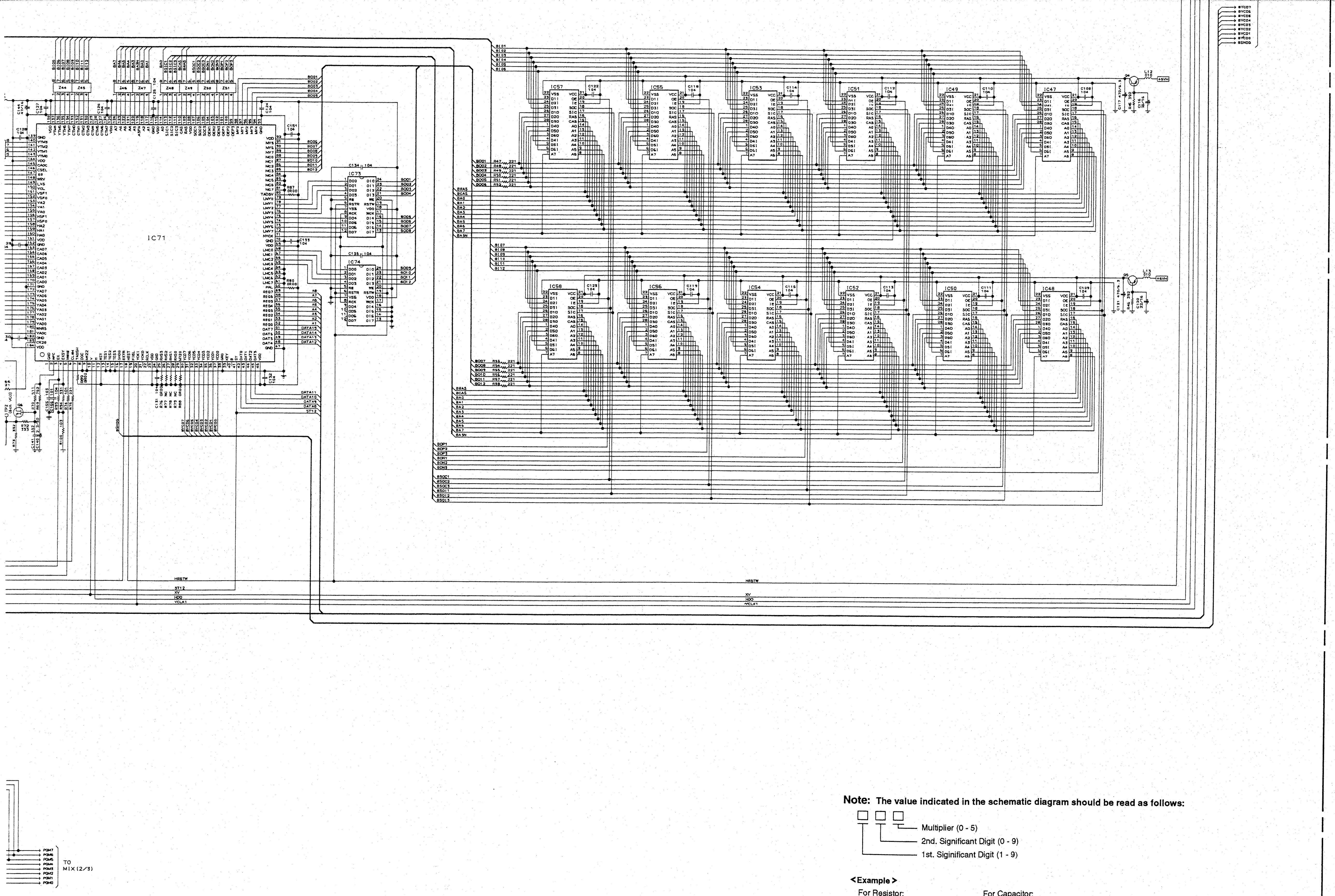
IC64	D3
IC65	D3
IC66	E5
IC67	C5
IC68	C5
IC69	C5
IC70	D6
IC71	E7
IC73	E8
IC74	D8
IC75	I3
IC76	F3
IC77	F3
IC79	G8
IC90	D3
Q1	I12
Q2	H12
Q3	G6
Q4	E12
Q5	D12
Q6	D6
D1	G6
D2	D6



IC59
IC61
IC63
IC64
IC65
IC90
IC66
IC71
IC67
IC68
IC69
IC70
SW2
DIP SWITCH
L16
8oh VCO
IC40
IC41
IC42
IC43
IC39
IC36
IC37
IC38
TO
MIX (2/3)
TO
MIX (2/3)
A
B
C
D
E
1
2
3
4
5
6
7

C DIAGRAM OF MIXER (3/3) BOARD


IC32
IC33
IC34
IC35
IC79
IC14
IC12
IC10
IC8
IC6
IC4
IC15
IC13
IC11
IC9
IC7
IC5
IC57
IC55
IC53
IC51
IC49
IC47
Q1
Q2
Q3
TO
MIX (1/3)
TO
MIX (2/3)
HRSTW
YCLK1
XVP
XVPN
RCLK
HD
ST11
XV
HDD
+5VD


IC71
IC73
IC74
IC57
IC55
IC53
IC51
IC49
IC47
IC58
IC56
IC54
IC52
IC50
IC48
HRSTW
ST12
XV
HDO
VCLK1
TO
MIX (2/3)

Note: The value indicated in the schematic diagram should be read as follows:

☐ ☐ ☐

Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

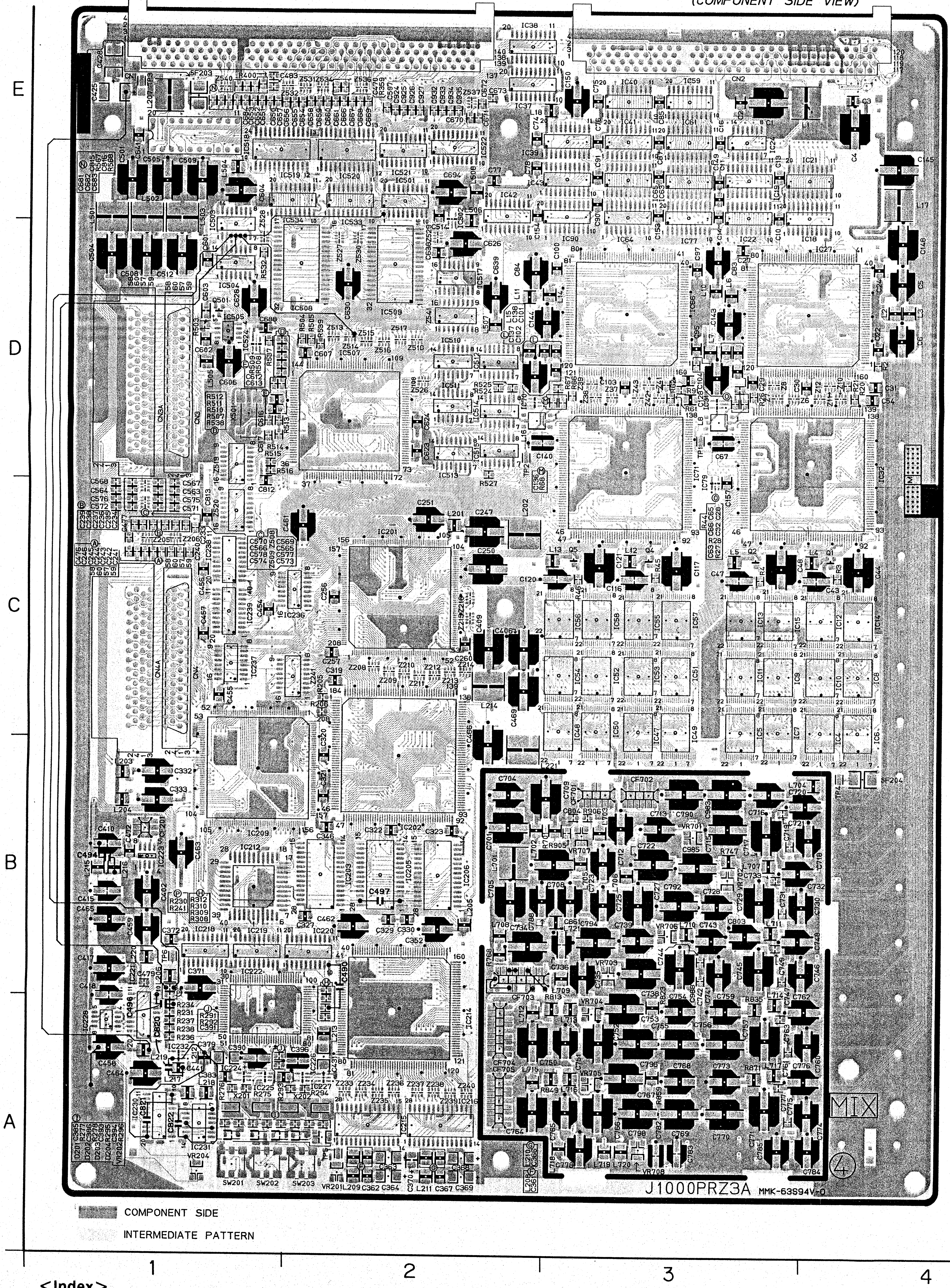
<Example>

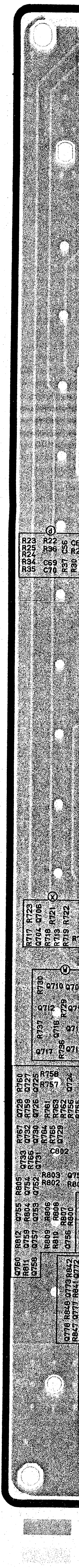
For Resistor:	For Capacitor:
330 → 33×10^0 = 33 Ω	820 → 82×10^0 = 82 pF
561 → 56×10^1 = 560 Ω	102 → 10×10^2 = 1000 pF = 0.001 µF
123 → 12×10^3 = 12k Ω	104 → 10×10^4 = 100000 pF = 0.1 µF
0R00 = 0 Ω	The suffix attached to capacitance indicates a type of capacitor.

7
8
9
10
11
12
13

CONDUCTOR VIEW OF MI

(COMPONENT SIDE VIEW)





▨ COMPONENT SIDE

▨ INTERMEDIATE PATTERN

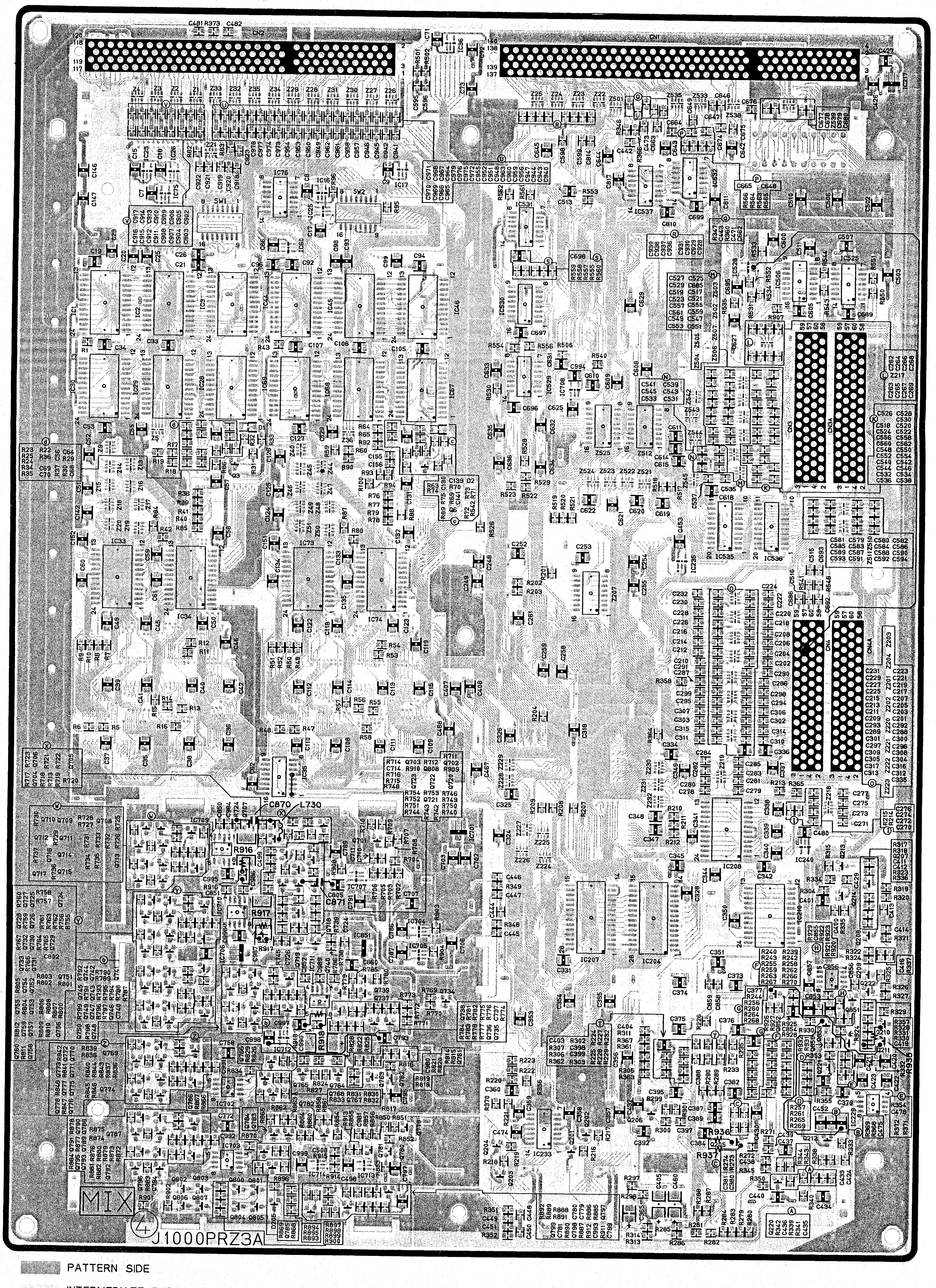
<Index>

MIXER BOARD

IC1	D5
IC2	D5
IC3	D5
IC4	C4
IC5	C3
IC6	C4
IC7	C3
IC8	C4
IC9	C3
IC10	C4
IC11	C3
IC12	C4
IC13	C3
IC14	C4
IC15	C3
IC16	E5
IC17	E6
IC18	E3
IC19	E3
IC21	E3
IC22	E3
IC23	E5
IC24	E3
IC25	F5
IC26	E5
IC27	D4
IC28	D5
IC29	D5
IC30	D5
IC31	D3
IC32	D4
IC33	C5
IC34	C5
IC35	C5
IC36	E6
IC37	E2
IC38	E2
IC39	E3
IC40	E3
IC41	E3
IC42	E2
IC43	E3
IC44	D5
IC45	D5
IC46	D6
IC47	C3
IC48	C3
IC49	C3
IC50	C3
IC51	C3
IC52	C3
IC53	C3
IC54	C3
IC55	C3
IC56	C3
IC57	C3
IC58	C3
IC59	E3
IC60	D5
IC61	E3
IC63	E3
IC64	E3
IC65	E3
IC66	D3
IC67	D6
IC68	D5
IC69	D5
IC70	D2
IC71	D3
IC73	C5
IC74	C6
IC75	E5
IC76	E5
IC77	E3
IC79	D3
IC90	E3
IC201	C2
IC202	B2
IC203	B2
IC204	B7
IC205	B2
IC206	B2
IC207	B6
IC208	B7
IC209	B1
IC210	B7
IC212	B1
IC214	A2
IC215	A2
IC216	A2
IC217	E7
IC218	B1
IC219	B1
IC220	B2
IC221	A1
IC222	B1
IC223	B1
IC224	A1
IC225	A1
IC226	A2
IC227	A2
IC228	A1
IC230	A1
IC231	A1
IC232	A1
IC233	A6
IC235	C7
IC236	C2
IC237	C1
IC238	C1

W OF MIXER BOARD

(PATTERN SIDE VIEW)



▨ PATTERN SIDE

▨ INTERMEDIATE PATTERN

5

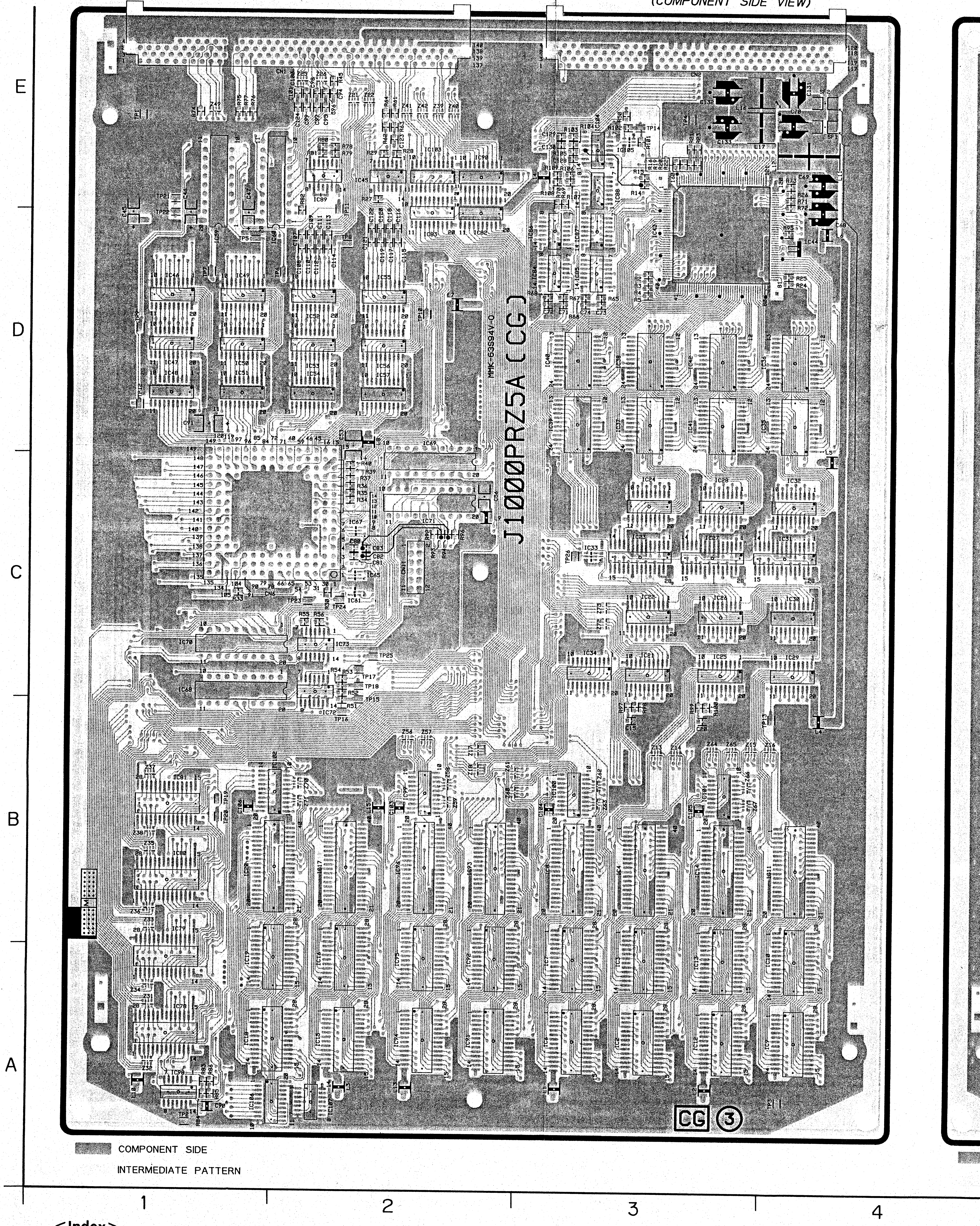
6

7

IC227	A2
C228	A1
C230	A1
C231	A1
C232	A1
C233	A6
C235	C7
C236	C2
C237	C1
C238	C1
IC239	C1
IC240	B7
IC501	E2
IC502	E2
IC503	D1
IC504	D1
IC505	D1
IC506	D7
IC507	D2
IC508	D2
IC509	D2
IC510	D2
IC511	D2
IC512	D2
IC513	D2
IC514	D2
IC515	D2
IC517	D2
IC518	E1
IC519	E1
IC520	E2
IC521	E2
IC522	E2
IC524	D1
IC525	D7
IC528	D7
IC529	D6
IC530	D6
IC531	E6
IC532	E7
IC533	E2
IC534	E2
IC535	C7
IC536	C7
IC537	E7
IC701	B6
IC702	A5
IC703	A5
IC704	B6
IC705	B6
IC706	B5
IC707	B6
IC708	D6
IC709	B5
IC710	B5
IC711	B5
IC712	B5
IC713	A6
IC714	A5
IC851	B6
Q1	C4
Q2	C3
Q3	D5
Q4	C3
Q5	C3
Q6	D6
Q201	A6
Q202	A6
Q203	A6
Q204	A6
Q205	A7
Q206	A7
Q207	B7
Q208	B7
Q209	B7
Q210	B7
Q211	B7
Q212	A7
Q213	B7
Q214	B7
Q220	A7
Q221	A7
Q222	B7
Q501	D1
Q701	B6
Q702	B5
Q703	B5
Q704	B5
Q705	B5
Q706	B5
Q707	B5
Q708	B5
Q709	B5
Q710	B5
Q711	B5
Q712	B5
Q713	B5
Q714	B5
Q715	B5
Q716	B5
Q717	B5
Q718	B5
Q719	B5
Q720	B5
Q721	B5
Q722	B5
Q723	B5
Q724	B5
Q725	B5
Q726	B5
Q727	B5
Q728	B5
Q729	B5
Q730	B5
Q731	B5
Q732	B5
Q733	B5
Q734	B6
Q735	B6
Q736	B6
Q737	B6
Q738	B5
Q739	B6
Q740	B5
Q741	B5
Q742	B5
Q743	B5
Q744	B5
Q745	B5
Q746	B5
Q747	B5
Q748	B5
Q749	B5
Q750	B5
Q751	B5
Q752	B5
Q753	B5
Q754	B5
Q755	B5
Q756	B5
Q757	B5
Q758	B5
Q759	B5
Q760	B5
Q761	A6
Q762	A6
Q763	A6
Q764	A5
Q765	A5
Q766	A5
Q767	A5
Q768	A5
Q769	A5
Q770	A5
Q771	A5
Q772	A5
Q773	A5
Q774	A5
Q775	A5
Q776	A5
Q777	A5
Q778	A5
Q779	A6
Q780	A6
Q781	A6
Q782	A5
Q783	A5
Q784	A5
Q785	A5
Q786	A5
Q787	A5
Q788	A5
Q789	A5
Q790	A5
Q791	A5
Q792	A5
Q793	A5
Q794	A5
Q795	A5
Q796	A5
Q797	A6
Q798	A6
Q799	A5
Q800	A5
Q801	A5
Q802	A5
Q803	A5
Q804	A5
Q805	A5
Q806	A5
Q807	A5
Q808	B5
Q851	B7
Q852	B7
Q853	B7
D1	D5
D2	D6
D201	A1
D202	A1
D203	A1
D204	A2
D205	A5

CONDUCTOR VIEW OF

(COMPONENT SIDE VIEW)



COMPONENT SIDE

INTERMEDIATE PATTERN

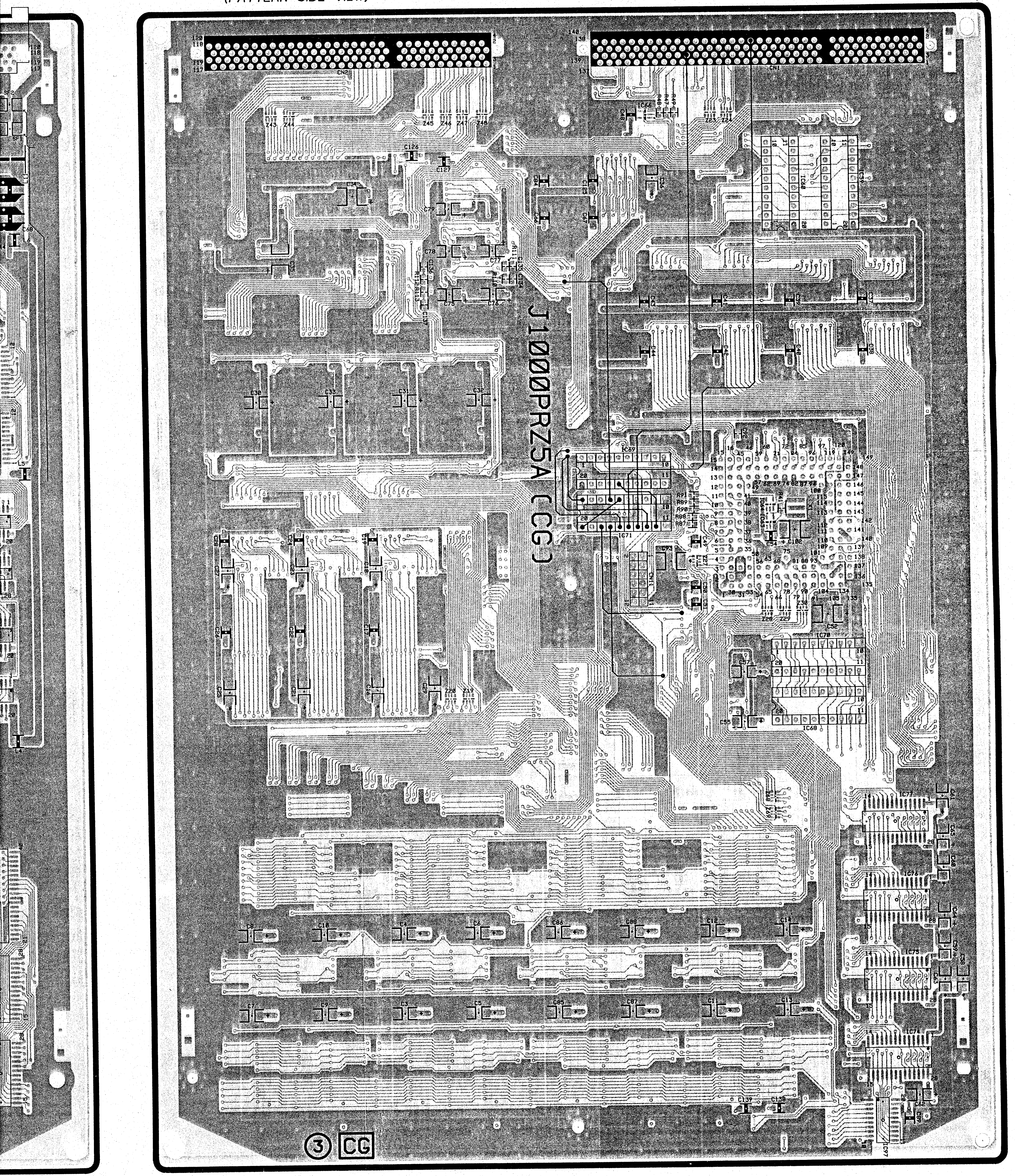
<Index>

CG BOARD

IC2	A3
IC3	A3
IC4	B3
IC6	A3
IC7	A3
IC8	B3
IC9	A4
IC10	A4
IC11	B4
IC12	A3
IC13	A3
IC14	B3
IC15	A2
IC16	A2
IC17	B2
IC18	A1
IC19	A1
IC20	B1
IC21	C3
IC22	C3
IC23	C3
IC24	C3
IC25	C3
IC26	C3
IC27	C3
IC28	C3
IC29	C4
IC30	C4
IC31	C4
IC32	C4
IC33	C3
IC34	C3
IC35	D4
IC36	D4
IC37	D3
IC38	D3
IC39	D3
IC40	D3
IC41	D3
IC42	D3
IC43	D3
IC44	D4
IC45	E2
IC46	D1
IC47	D1
IC48	D1
IC49	D1
IC50	D1
IC51	D1
IC52	D2
IC53	D2
IC54	D2
IC55	D2
IC56	D2
IC57	D2
IC59	D1
IC60	D1
IC61	C2
IC62 (CN6)	C1
IC63	C7
IC64	C7
IC65	C2
IC66	E6
IC67	C2
IC68	C7
IC69	D2
IC70	C1
IC71	C2
IC72	C2
IC73	C2
IC74	A7

CTOR VIEW OF CG BOARD

(PATTERN SIDE VIEW)

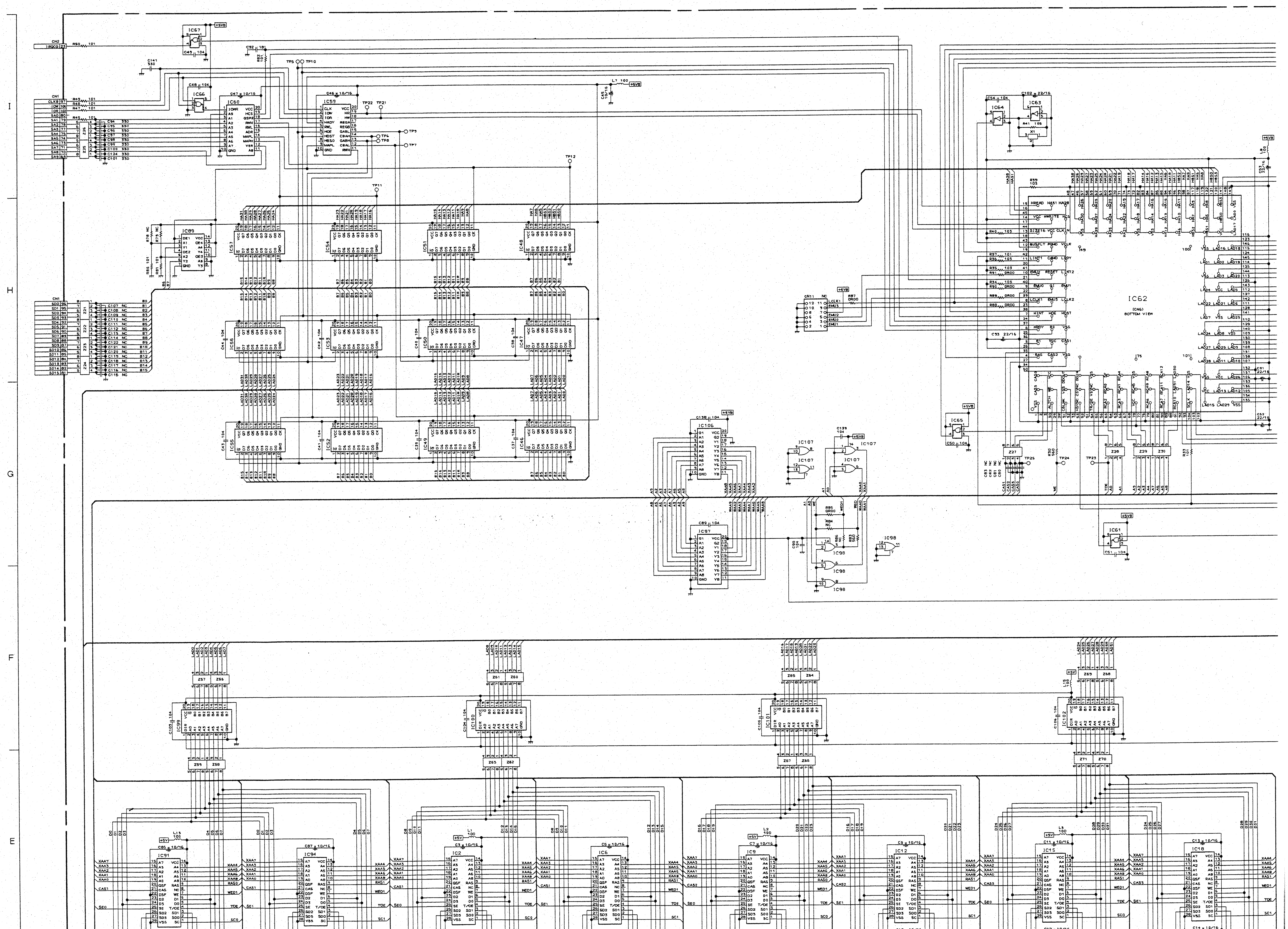

J100PRZ5A (CG)
③ CG
CN1
CN2
IC60
IC67
IC68
IC70
IC71
IC78
IC97
4
5
6
7

▨ PATTERN SIDE

INTERMEDIATE PATTERN

C56	D2	IC66	E6	IC75	A7	IC84	D3	IC93	B2	IC102	B2
C57	D2	IC67	C2	IC76	B7	IC85	D3	IC94	A2	IC103	E2
C59	D1	IC68	C7	IC77	B7	IC86	D3	IC95	A2	IC104	E3
C60	D1	IC69	D2	IC78	A1	IC87	D3	IC96	B2	IC105	E3
C61	C2	IC70	C1	IC79	A1	IC88	E3	IC97	A7	IC106	A1
C62 (CN6)	C1	IC71	C2	IC80	B1	IC89	E2	IC98	A1	IC107	A2
C63	C7	IC72	C2	IC81	B1	IC90	E2	IC99	B2		
C64	C7	IC73	C2	IC82	D2	IC91	A2	IC100	B3		
C65	C2	IC74	A7	IC83	D2	IC92	A2	IC101	B3		

SCHEMATIC DIAGRAM OF CG B


I
H
G
F
E
IC67
IC66
IC60
IC59
IC64
IC63
IC89
IC57
IC54
IC51
IC48
IC56
IC53
IC50
IC47
IC55
IC52
IC49
IC46
IC62
(CN6)
BOTTOM VIEW
IC65
IC106
IC107
IC97
IC98
IC61
IC99
IC100
IC101
IC102
IC91
IC94
IC2
IC6
IC9
IC12
IC15
IC18
CN1
CN2
CN11
+5VB
+5V

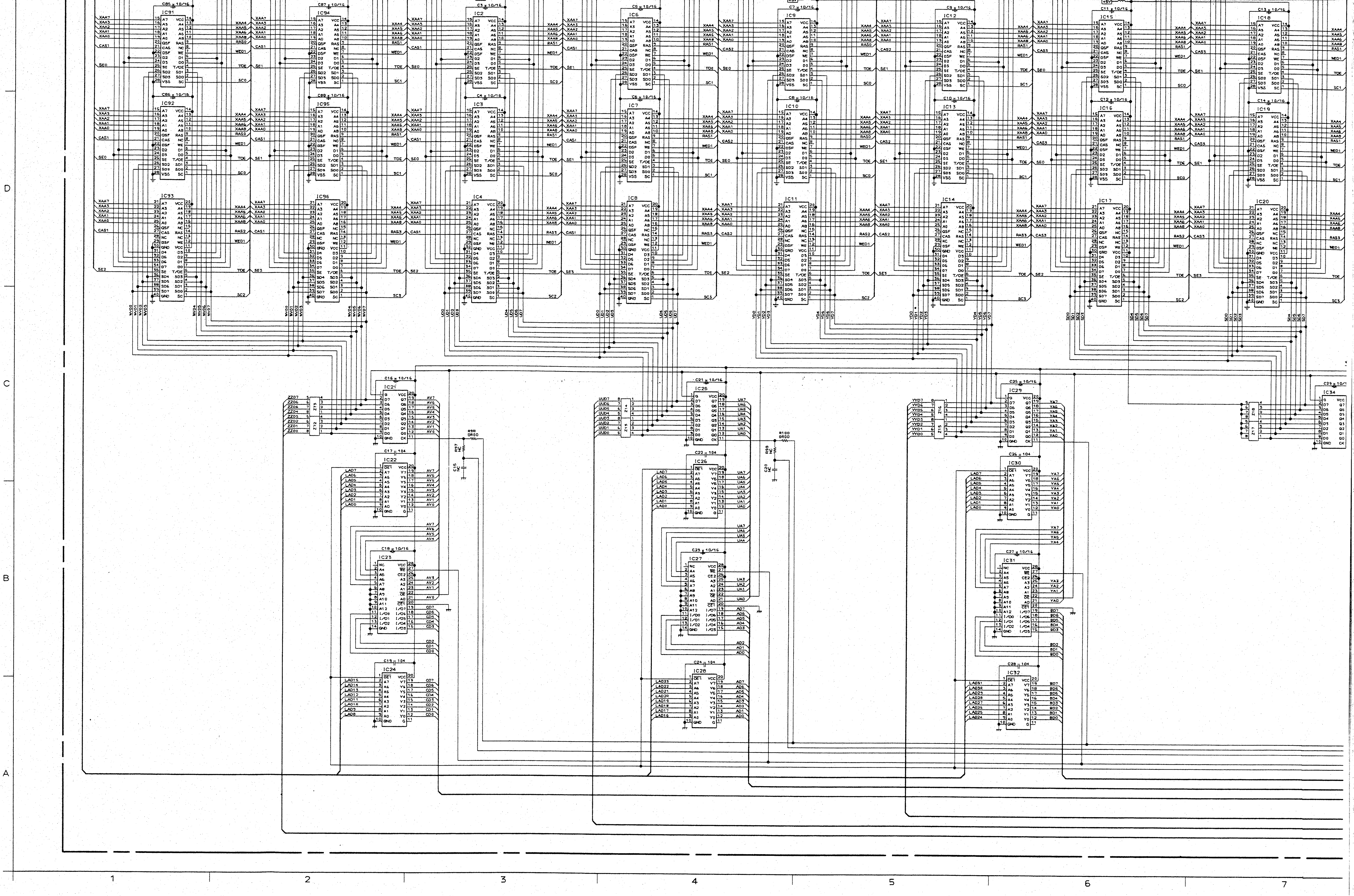
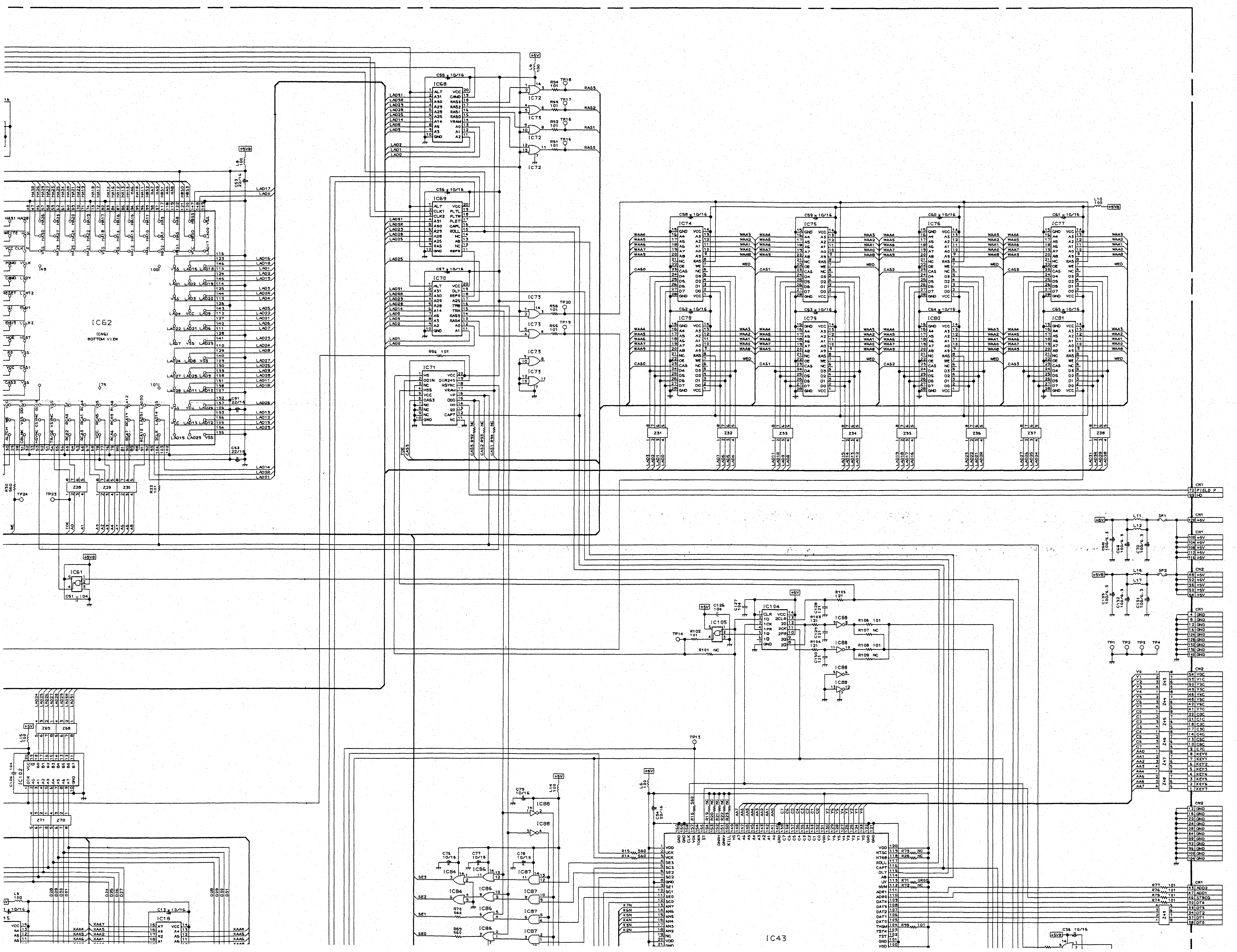

IC91
IC92
IC93
IC94
IC95
IC96
IC2
IC3
IC4
IC6
IC7
IC8
IC9
IC10
IC11
IC12
IC13
IC14
IC15
IC16
IC17
IC18
IC19
IC20
IC21
IC22
IC23
IC24
IC25
IC26
IC27
IC28
IC29
IC30
IC31
IC32
IC34
R98
R99
R100
D
C
B
A
1
2
3
4
5
6
7

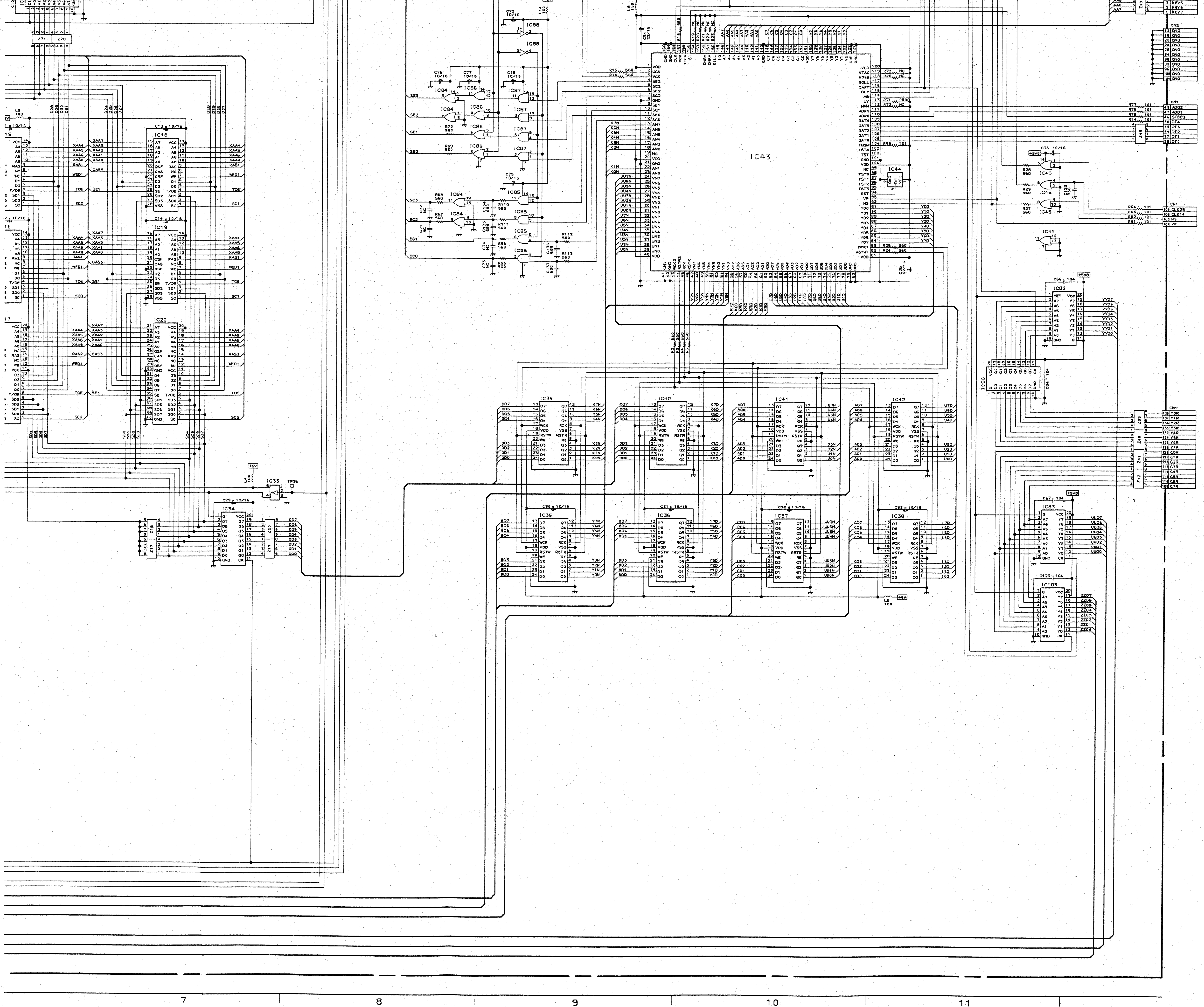
DIAGRAM OF CG BOARD


IC62
(CN6)
BOTTOM VIEW
IC68
IC69
IC70
IC71
IC72
IC73
IC74
IC75
IC76
IC77
IC78
IC79
IC80
IC81
IC61
IC102
IC104
IC105
IC84
IC85
IC86
IC87
IC88
IC18
IC43
CN1
CN2
+5V
+5VB

<Index>

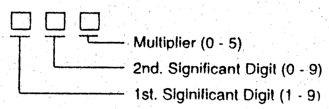
CG BOARD

IC2	E3
IC3	D3
IC4	D3
IC6	E4
IC7	D4
IC8	D4
IC9	E4
IC10	D4
IC11	D4
IC12	E5
IC13	D5
IC14	D5
IC15	E6
IC16	D6
IC17	D6
IC18	E7
IC19	D7
IC20	D7
IC21	C2
IC22	C2
IC23	B2
IC24	A2
IC25	C4
IC26	C4
IC27	B4
IC28	A4
IC29	C6
IC30	C6
IC31	B6
IC32	A6
IC33	C7
IC34	C7
IC35	C9
IC36	C9
IC37	C10
IC38	C11
IC39	D9
IC40	D9
IC41	D10
IC42	D11
IC43	E10
IC44	E11
IC45	D11, E11
IC46	G3
IC47	H3
IC48	H3
IC49	G3
IC50	H3
IC51	H3
IC52	G2
IC53	H2
IC54	H2
IC55	G2
IC56	H2
IC57	H2
IC59	I2
IC60	I2
IC61	G6
IC62 (CN6)	H7
IC63	I6
IC64	I6
IC65	G6
IC66	I2
IC67	I1
IC68	I8
IC69	H8
IC70	H8
IC71	H8
IC72	I9
IC73	H9


IC43
IC44
IC45
IC82
IC83
IC90
IC103
IC84
IC85
IC86
IC87
IC88
IC18
IC19
IC20
IC33
IC34
IC35
IC36
IC37
IC38
IC39
IC40
IC41
IC42
CN1
CN2
TP26
7
8
9
10
11

IC60	I2
IC61	G6
IC62 (CN6)	H7
IC63	I6
IC64	I6
IC65	G6
IC66	I2
IC67	I1
IC68	I8
IC69	H8
IC70	H8
IC71	H8
IC72	I9
IC73	H9
IC74	H10
IC75	H10
IC76	H11
IC77	H11
IC78	H10
IC79	H10
IC80	H11
IC81	H11
IC82	D11
IC83	C11
IC84	D8, E8
IC85	D9, E9
IC86	E9
IC87	E9
IC88	E9, E10
IC89	H1
IC90	D11
IC91	E1
IC92	D1
IC93	D1
IC94	E2
IC95	D2
IC96	D2
IC97	G4
IC98	F5, G5
IC99	F1
IC100	F3
IC101	F5
IC102	F6
IC103	C11
IC104	F10
IC105	F10
IC106	G4
IC107	G5

Note: **The value indicated in the schematic diagram should be read as follows**


Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

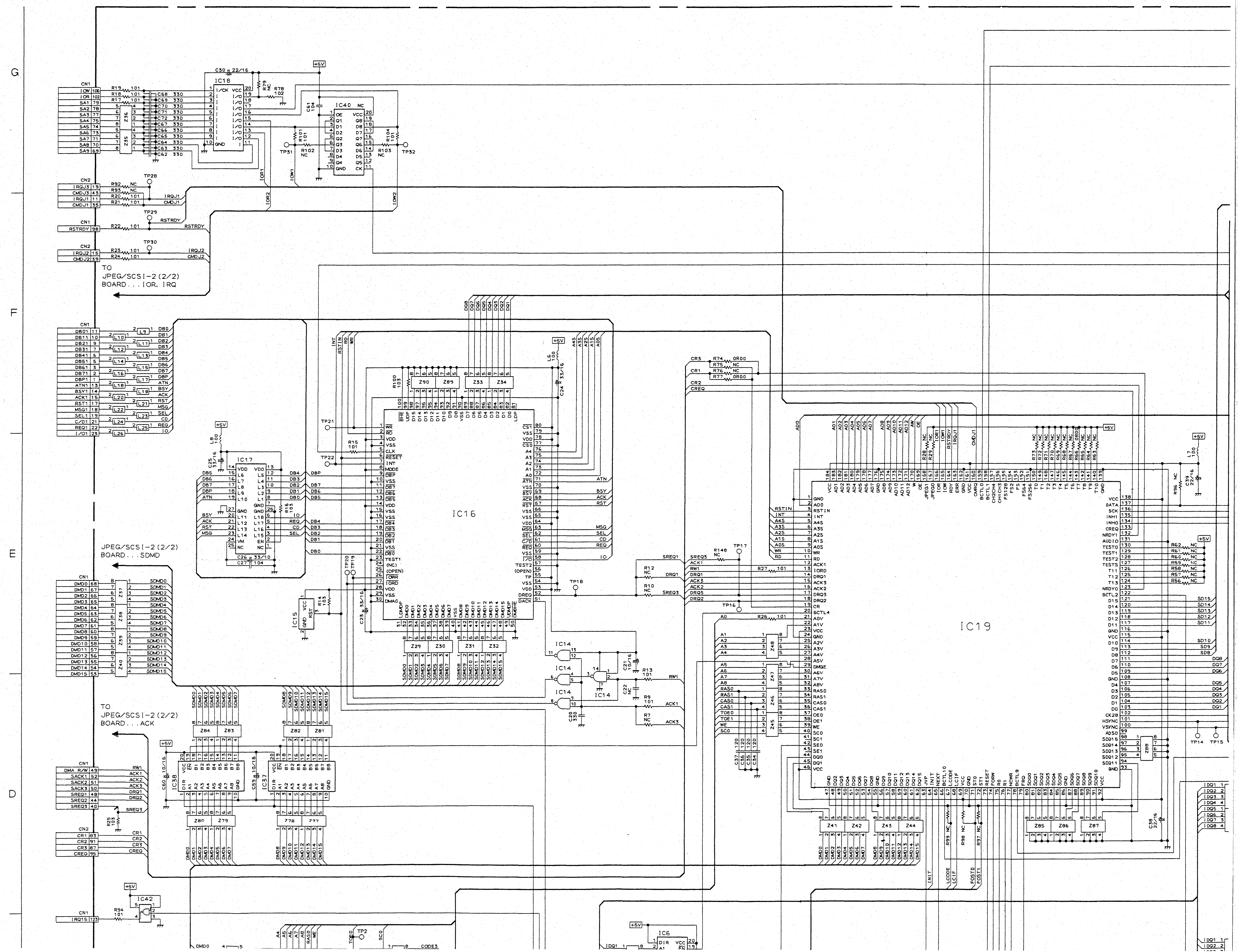
<Example>

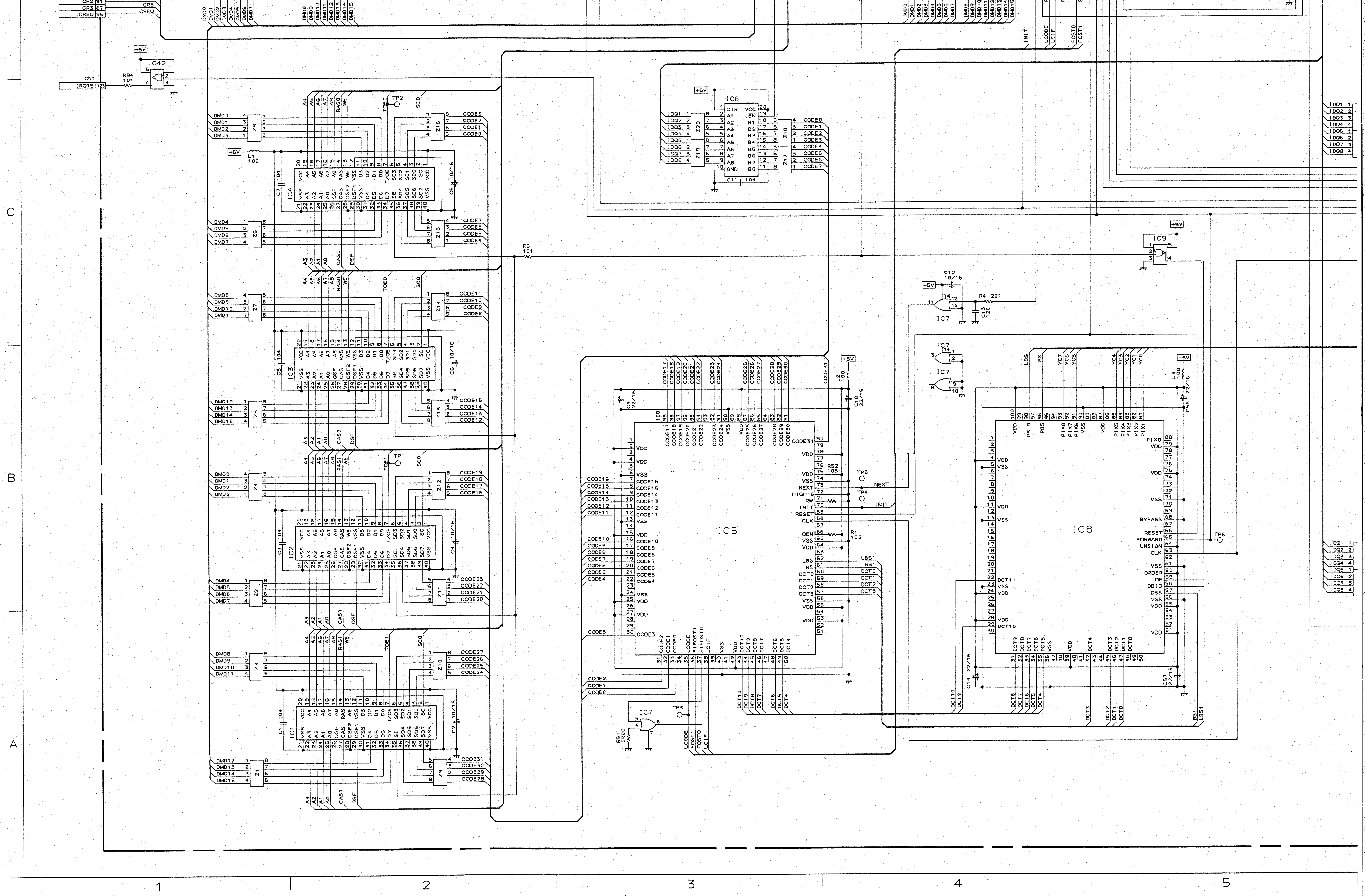
For Resistor:

$330 \longrightarrow 33 \times 10^0 = 33\ \Omega$
$561 \longrightarrow 56 \times 10^1 = 560\ \Omega$
$123 \longrightarrow 12 \times 10^3 = 12k\ \Omega$
$0R00 = 0\ \Omega$

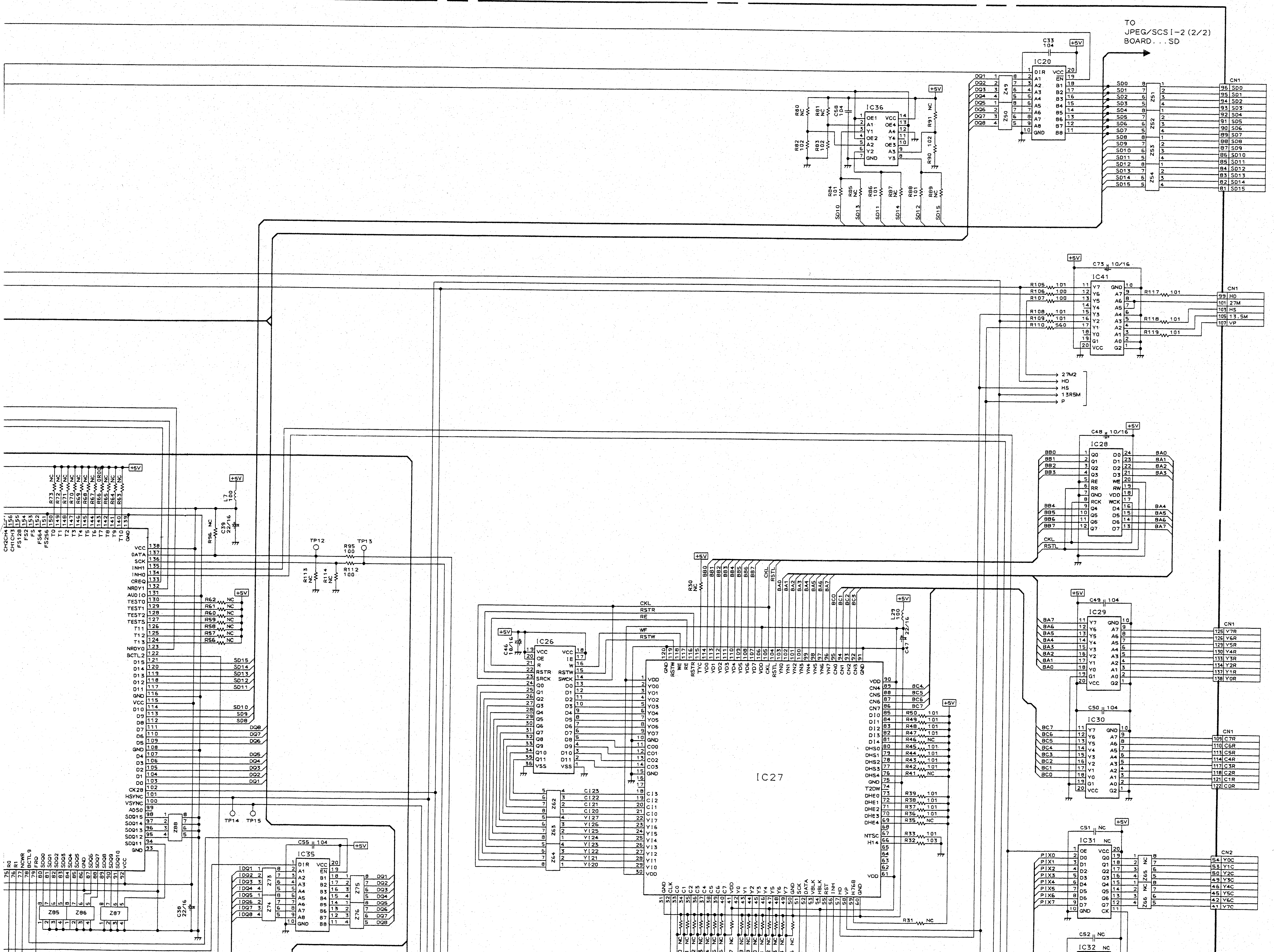
For Capacitor:
$820 \longrightarrow 82 \times 10^0 = 82\ pF$
$102 \longrightarrow 10 \times 10^2 = 1000\ pF = 0.001\ \mu F$
$104 \longrightarrow 10 \times 10^4 = 100000\ pF = 0.1\ \mu F$
The suffix attached to capacitance indicates a type of capacitor.

SCHEMATIC DIAGRAM OF JPEG/SCSI-2


G
F
E
D
CN1
CN2
IC18
IC40
IC16
IC17
IC15
IC19
IC14
IC38
IC37
IC42
IC6
+5V
TP28
TP29
TP30
TP31
TP32
TP21
TP22
TP17
TP18
TP16
TP19
TP20
TP14
TP15
TP2
IRQJ1
CMDJ1
RSTRDY
IRQJ2
CMDJ2
IOR1
IOR2
IOW1
IOW2
TO
JPEG/SCSI-2(2/2)
BOARD...IOR, IRQ
JPEG/SCSI-2(2/2)
BOARD...SDMD
TO
JPEG/SCSI-2(2/2)
BOARD...ACK
SREQ1
SREQ3
DRQ1
ACK1
ACK3
RW1
CR1
CR2
CR3
CREQ
CODE3
DMD0


C
B
A
1
2
3
4
5
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC42
CN1
IRQ15
R94 101
R6 101
R4 221
R1 102
R52 103
RS1 0R00
L1 100
L2 100
L3 100
C12 10/16
C10 22/16
C14 22/16
C56 22/16
C57 22/16
TP1
TP2
TP3
TP4
TP5
TP6
+5V
NEXT
INIT
RESET
CLK
LBS1
BS1
DCT0
DCT1
DCT2
DCT3
LCODE
FOST0
FOST1
LCIF
CODE0
CODE31
DMD0
DMD15
IDQ1
IDQ8
PIX0
FORWARD
UNSIGN
BYPASS
ORDER
DBID
DBS

GRAM OF JPEG/SCSI-2 (1/2) BOARD

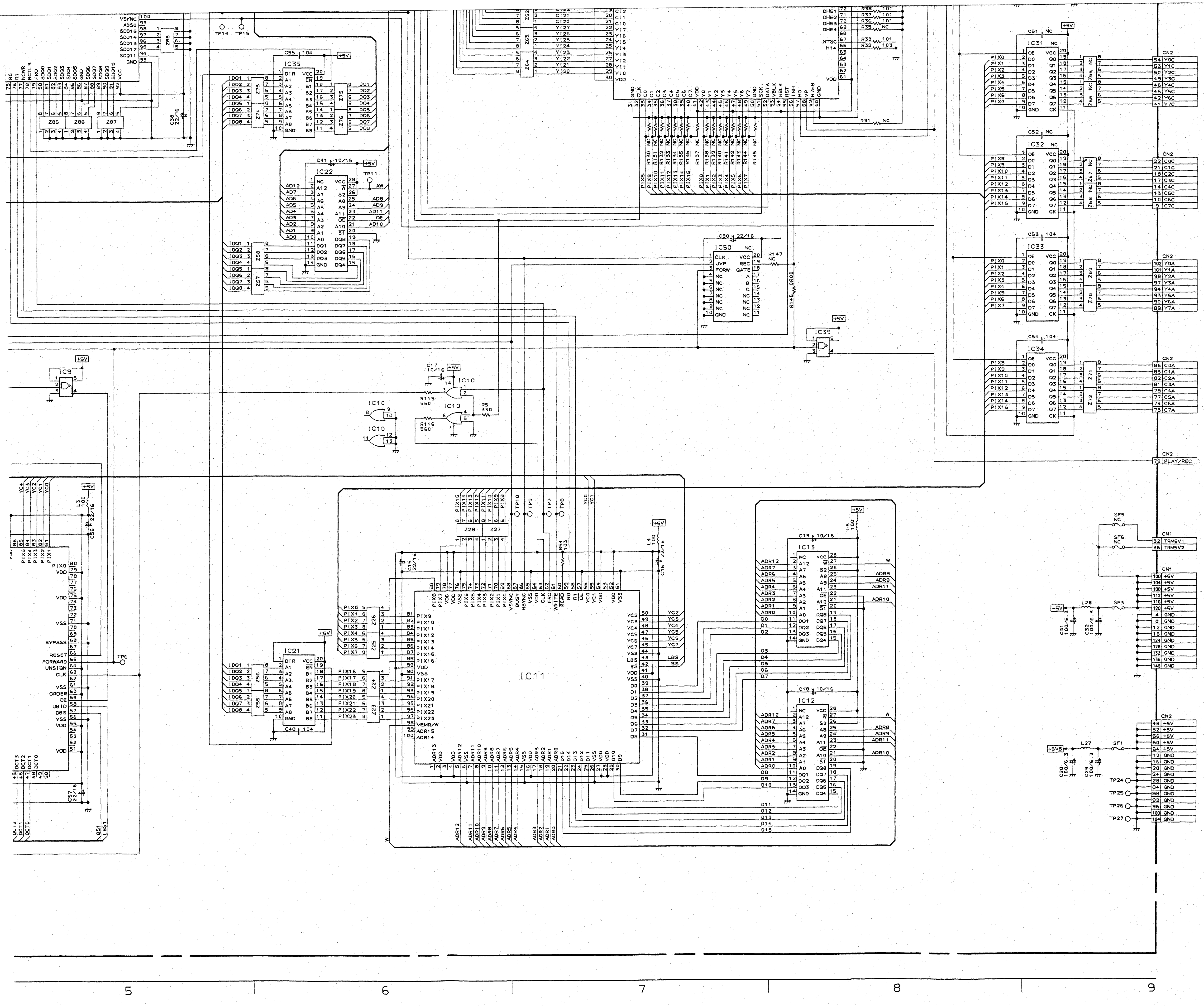


TO
JPEG/SCSI-2 (2/2)
BOARD...SD
IC20
IC36
IC41
IC28
IC29
IC30
IC31
IC32
IC26
IC27
IC35
CN1
CN2
Z49
Z50
Z51
Z52
Z53
Z54
Z62
Z63
Z64
Z65
Z66
Z73
Z74
Z75
Z76
Z85
Z86
Z87
Z88
TP12
TP13
TP14
TP15
+5V
C33 104
C73 10/16
C48 10/16
C49 104
C50 104
C51 NC
C52 NC
C55 104
C46 10/16
C47 22/16
C39 22/16
C38 22/16
L29 100
L7 100
R95 100
R112 100
R117 101
R118 101
R119 101
27M2
HD
HS
13R5M
P
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
27M
13.5M
VP
Y7R
Y6R
Y5R
Y4R
Y3R
Y2R
Y1R
Y0R
C7R
C6R
C5R
C4R
C3R
C2R
C1R
C0R
Y0C
Y1C
Y2C
Y3C
Y4C
Y5C
Y6C
Y7C
PIX0
PIX1
PIX2
PIX3
PIX4
PIX5
PIX6
PIX7
BB0
BB1
BB2
BB3
BB4
BB5
BB6
BB7
BA0
BA1
BA2
BA3
BA4
BA5
BA6
BA7
BC0
BC1
BC2
BC3
BC4
BC5
BC6
BC7
CKL
RSTL
RSTR
RE
WF
RSTW
VCC
DATA
SCK
INH1
INH0
CREQ
NRDY1
AUDIO
TEST0
TEST1
TEST2
TESTS
T11
T12
T13
NRDY0
BCTL2
CK28
HSYNC
VSYNC
ADS0
NTSC
H14

<Index>

JPEG/SCSI-2 BOARD

IC1	A2
IC2	B2
IC3	B2
IC4	C2
IC5	B3
IC6	C3
IC7	A3, B4, C4
IC8	B4
IC9	C5
IC10	C6
IC11	B7
IC12	B8
IC13	B8
IC14	D3, E3
IC15	E2
IC16	E2
IC17	E1
IC18	G1
IC19	E4
IC20	G8
IC21	B6
IC22	D6
IC26	E7
IC27	D7
IC28	F9
IC29	E9
IC30	E9
IC33	C9
IC34	C9
IC35	D6
IC36	G8
IC37	D2
IC38	D1
IC39	C8
IC41	F9
IC42	D1


IC35
IC22
IC9
IC10
IC21
IC11
IC13
IC12
IC50
IC39
IC31
IC32
IC33
IC34
Z85
Z86
Z87
Z88
Z73
Z74
Z75
Z76
Z57
Z58
Z55
Z56
Z23
Z24
Z25
Z26
Z27
Z28
Z62
Z63
Z64
Z65
Z66
Z67
Z68
Z69
Z70
Z71
Z72
TP6
TP7
TP8
TP9
TP10
TP11
TP14
TP15
TP24
TP25
TP26
TP27
CN1
CN2
L4
L5
L27
L28
SF1
SF3
SF5
SF6
+5V
+5VB
VSYNC
NTSC
PLAY/REC
TRMSV1
TRMSV2
5
6
7
8
9

Note: The value indicated in the schematic diagram should be read as follows

□ □ □

Multiplier (0 - 5)

2nd. Significant Digit (0 - 9)

1st. Significant Digit (1 - 9)

<Example>

For Resistor:

330 → 33×10^0 = 33 Ω

561 → 56×10^1 = 560 Ω

123 → 12×10^3 = 12k Ω

0R00 = 0 Ω

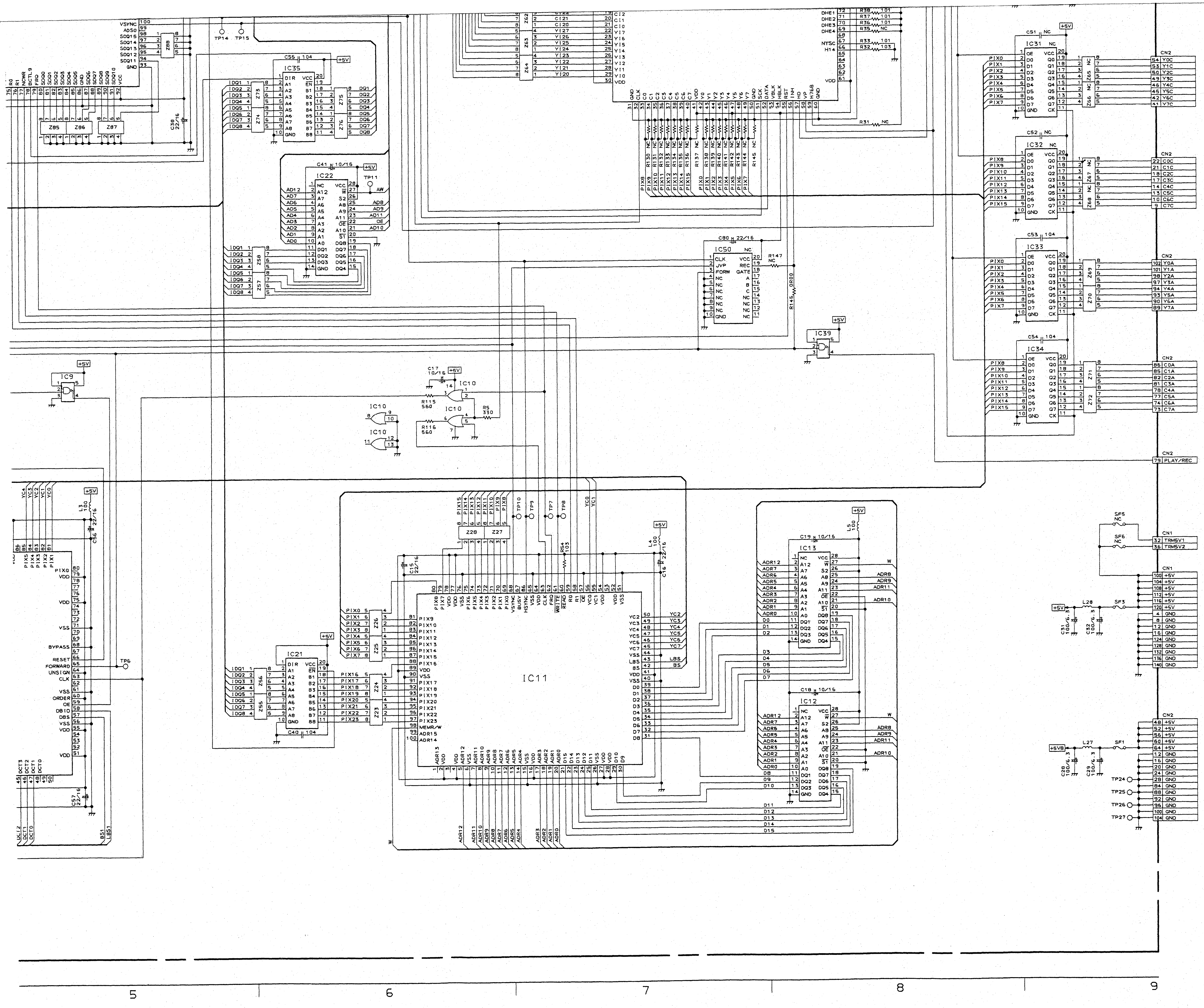
For Capacitor:

820 → 82×10^0 = 82 pF

102 → 10×10^2 = 1000 pF = 0.001 μF

104 → 10×10^4 = 100000 pF = 0.1 μF

The suffix attached to capacitance indicates a type of capacitor.


IC11
IC12
IC13
IC21
IC22
IC31
IC32
IC33
IC34
IC35
IC39
IC50
IC9
IC10
CN1
CN2
PLAY/REC
TRMSV1
TRMSV2
TP6
TP7
TP8
TP9
TP10
TP11
TP14
TP15
TP24
TP25
TP26
TP27
SF1
SF3
SF5
SF6
L3
L4
L5
L27
L28
+5V
+5VB
5
6
7
8
9

Note: The value indicated in the schematic diagram should be read as follows

□ □ □

- Multiplier (0 - 5)
- 2nd. Significant Digit (0 - 9)
- 1st. Siginificant Digit (1 - 9)

<Example>

For Resistor:

330 → 33×10^0 = 33 Ω
561 → 56×10^1 = 560 Ω
123 → 12×10^3 = 12k Ω
0R00 = 0 Ω

For Capacitor:

820 → 82×10^0 = 82 pF
102 → 10×10^2 = 1000 pF = 0.001 μF
104 → 10×10^4 = 100000 pF = 0.1 μF

The suffix attached to capacitance indicates a type of capacitor.

SCHEMATIC DIAGRAM OF JPEG/S

<Index>

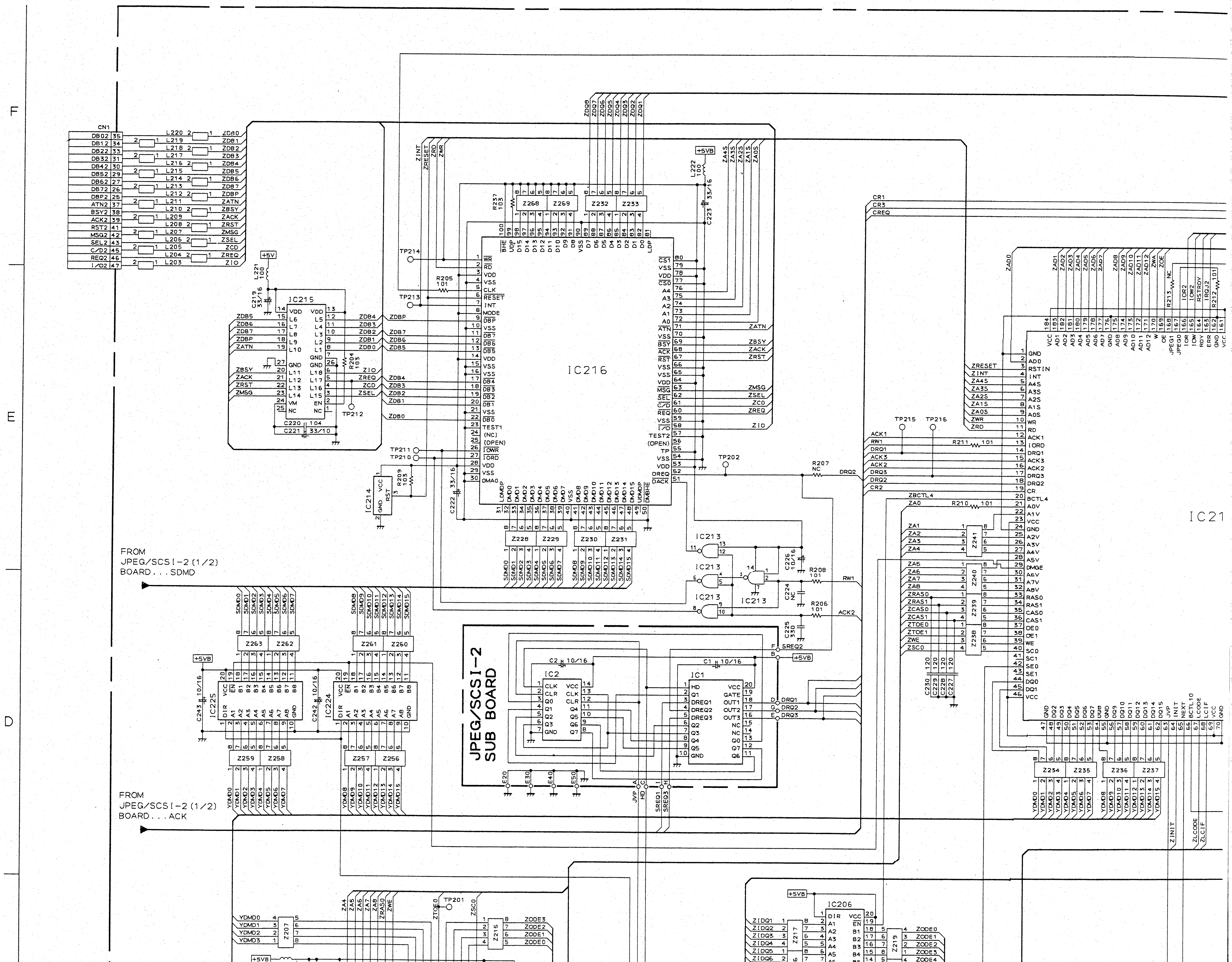
JPEG/SCSI-2 BOARD

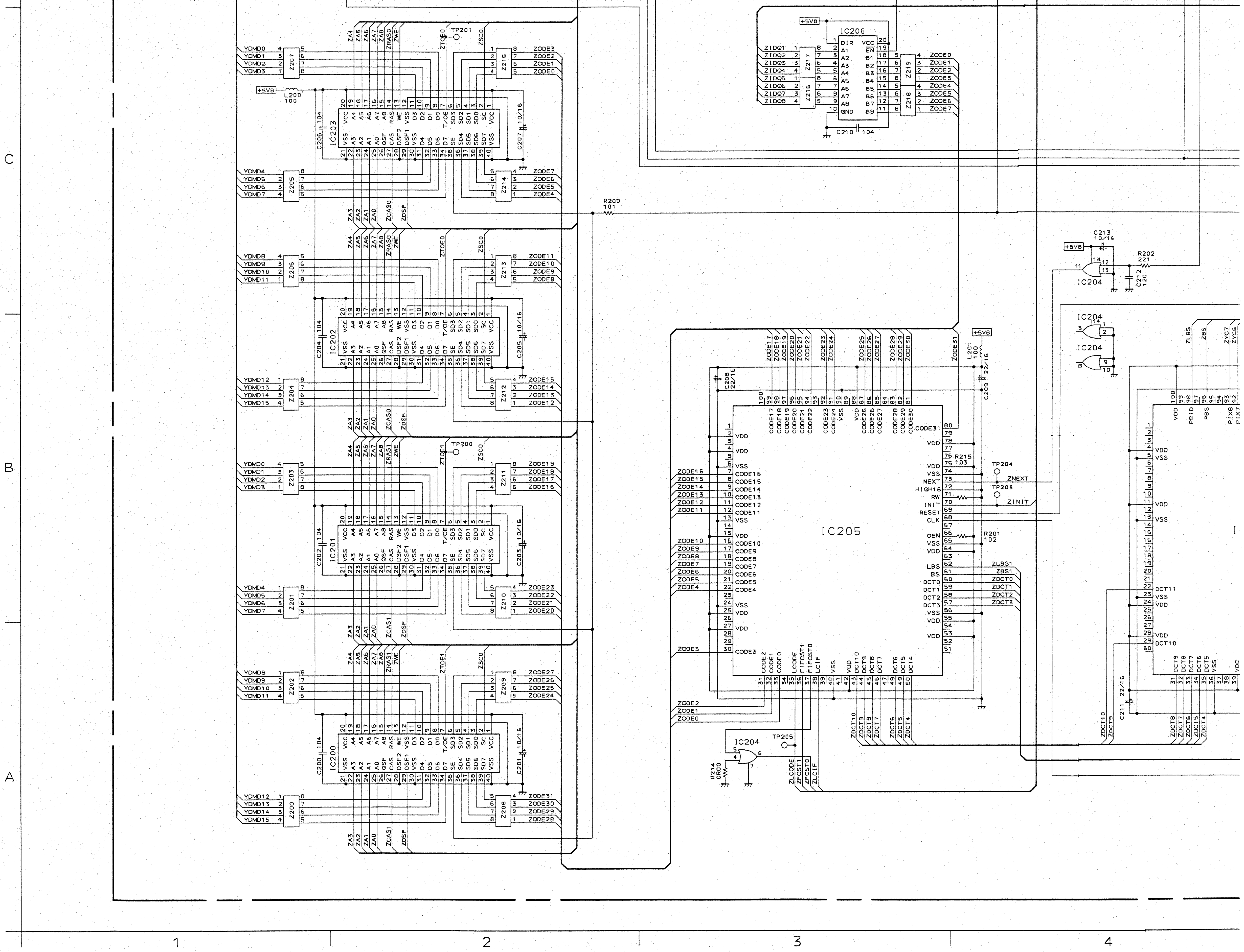
IC200	A2
IC201	B2
IC202	B2
IC203	C2
IC204	A3, B4, C4
IC205	B3
IC206	C3
IC207	B4
IC208	C5
IC209	B7
IC210	C6
IC211	B8
IC212	B8
IC213	D3, E3
IC214	E2
IC215	E1
IC216	E2
IC217	E4
IC218	B6
IC219	C8
IC220	C8
IC221	D6
IC222	F6
IC223	D6
IC224	D2
IC225	D1

<Index>

JPEG / SCSI-2 SUB BOARD

IC1	D3
IC2	D2


F
E
D
CN1
IC215
IC216
IC214
IC213
IC225
IC224
IC2
IC1
JPEG/SCSI-2 SUB BOARD
FROM JPEG/SCSI-2 (1/2) BOARD...SDMD
FROM JPEG/SCSI-2 (1/2) BOARD...ACK
IC206
IC21
+5VB
+5V


C
B
A
1
2
3
4
IC200
IC201
IC202
IC203
IC204
IC205
IC206
Z200
Z201
Z202
Z203
Z204
Z205
Z206
Z207
Z208
Z209
Z210
Z211
Z212
Z213
Z214
Z215
Z216
Z217
Z218
Z219
TP200
TP201
TP203
TP204
TP205
R200 101
R201 102
R202 221
R214 0R00
R215 103
L200 100
L201 101
C200 104
C201 10/16
C202 104
C203 10/16
C204 104
C205 10/16
C206 104
C207 10/16
C208 22/16
C209 22/16
C210 104
C211 22/16
C212 120
C213 10/16
+5V8
ZNEXT
ZINIT
ZLBS1
ZBS1
ZDCT0
ZDCT1
ZDCT2
ZDCT3
ZLCODE
ZFOST1
ZFOST0
ZLCIF

Note: The value indicated in the schematic diagram should be read as follows

□□□
Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Significant Digit (1 - 9)

<Example>

For Resistor:
330 → 33 x 10^0 = 33 Ω
561 → 56 x 10^1 = 560 Ω
123 → 12 x 10^3 = 12k Ω
0R00 = 0 Ω

For Capacitor:
820 → 82 x 10^0 = 82 pF
102 → 10 x 10^2 = 1000 pF = 0.001 µF
104 → 10 x 10^4 = 100000 pF = 0.1 µF
The suffix attached to capacitance indicates a type of capacitor.

Note: **The value indicated in the schematic diagram should be read as follows**

□ □ □

Multiplier (0 - 5)

2nd. Significant Digit (0 - 9)

1st. Siginificant Digit (1 - 9)

<Example>

For Resistor:

330 → 33×10^0 = 33 Ω

561 → 56×10^1 = 560 Ω

123 → 12×10^3 = 12k Ω

0R00 = 0 Ω

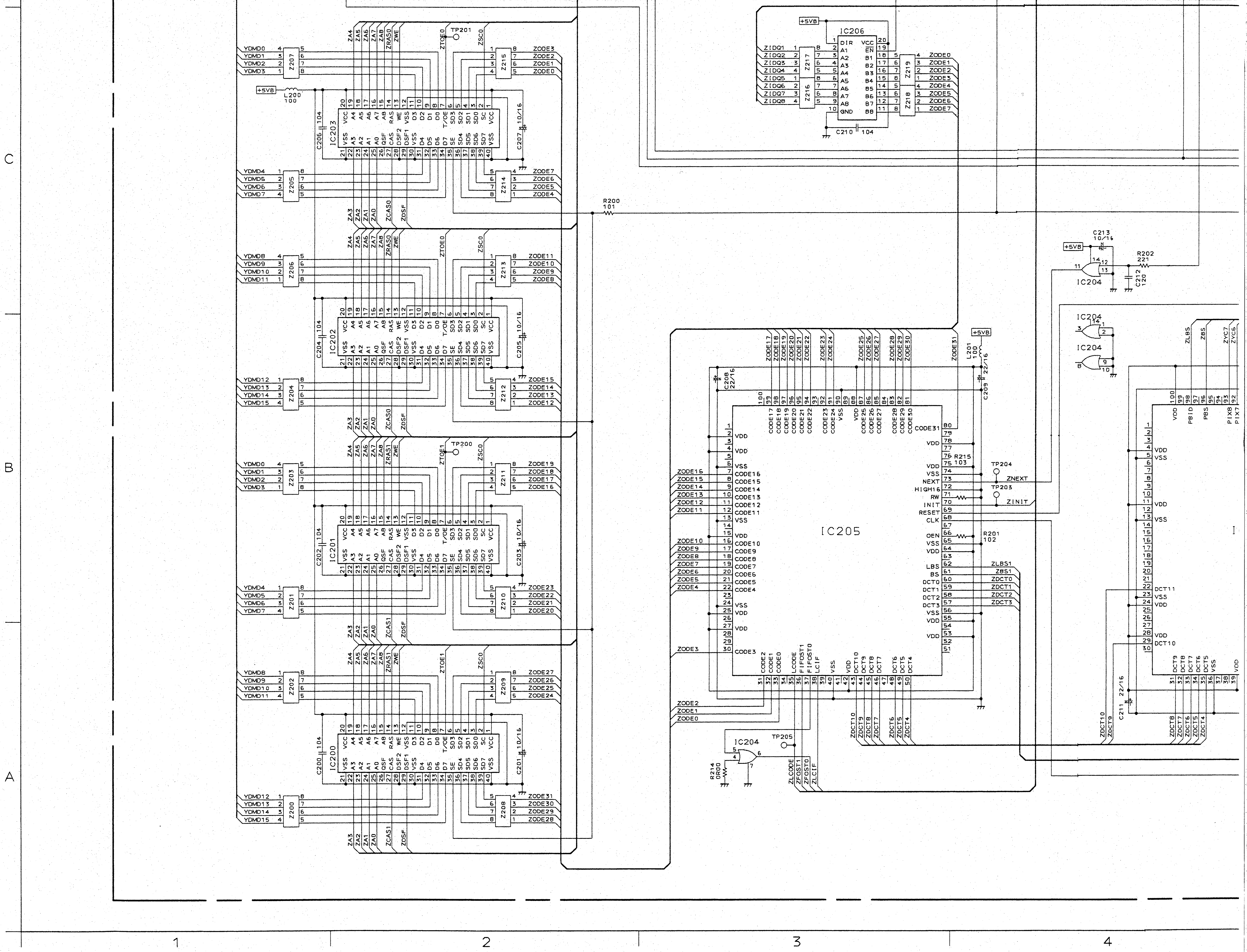
For Capacitor:

820 → 82×10^0 = 82 pF

102 → 10×10^2 = 1000 pF = 0.001 μF

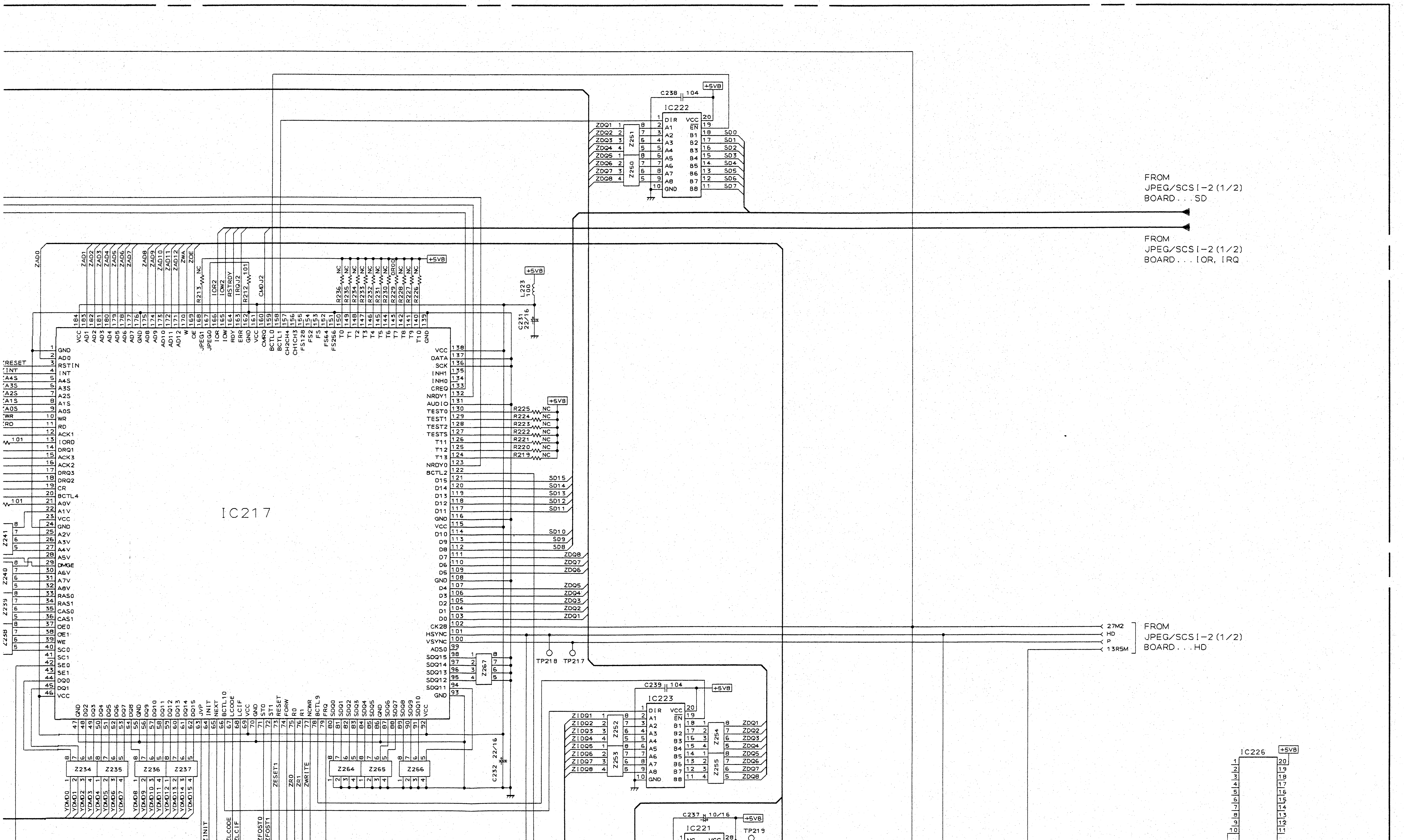
104 → 10×10^4 = 100000 pF = 0.1 μF

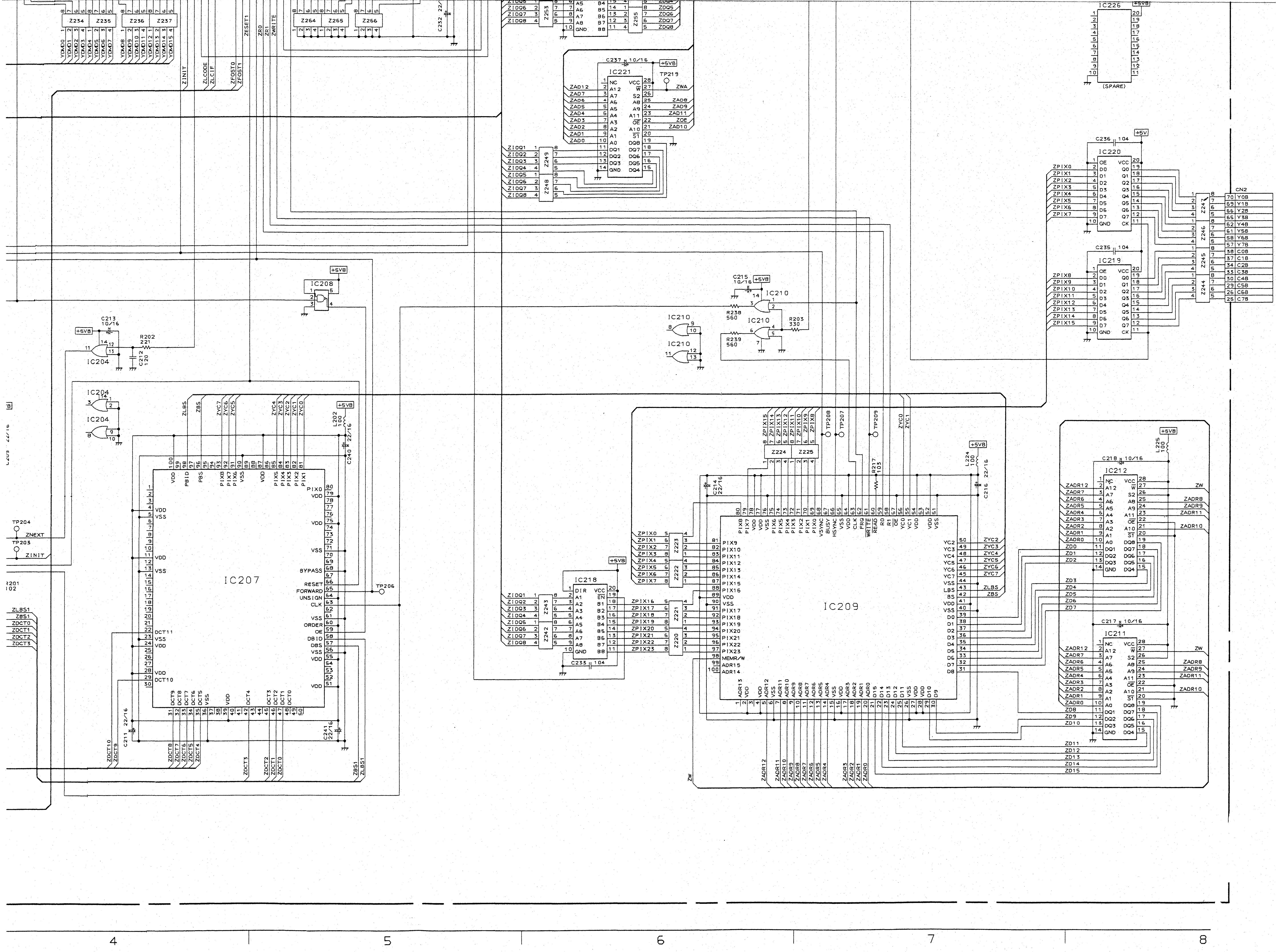
The suffix attached to capacitance indicates a type of capacitor.

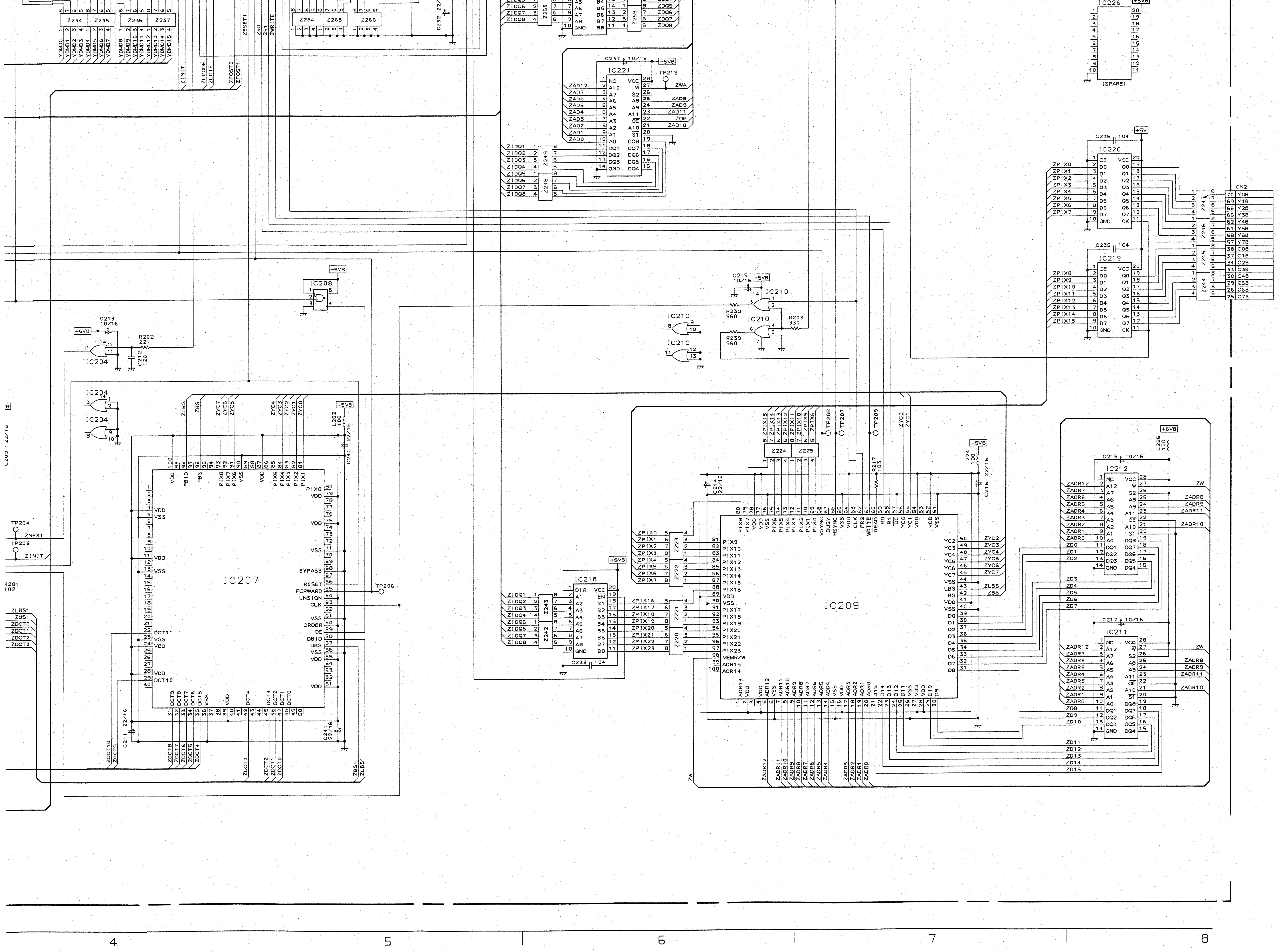


IC200
IC201
IC202
IC203
IC204
IC205
IC206
Z200
Z201
Z202
Z203
Z204
Z205
Z206
Z207
Z208
Z209
Z210
Z211
Z212
Z213
Z214
Z215
Z216
Z217
Z218
Z219
TP200
TP201
TP203
TP204
TP205
R200 101
R201 102
R202 221
R214 0R00
R215 103
L200 100
L201 100
C200 104
C201 10/16
C202 104
C203 10/16
C204 104
C205 10/16
C206 104
C207 10/16
C208 22/16
C209 22/16
C210 104
C211 22/16
C212 120
C213 10/16
+5VB
YDMD0
YDMD1
YDMD2
YDMD3
YDMD4
YDMD5
YDMD6
YDMD7
YDMD8
YDMD9
YDMD10
YDMD11
YDMD12
YDMD13
YDMD14
YDMD15
ZA0
ZA1
ZA2
ZA3
ZA4
ZA5
ZA6
ZA7
ZA8
ZRAS0
ZRAS1
ZCAS0
ZCAS1
ZWE
ZDSF
ZTOE0
ZTOE1
ZSC0
ZODE0
ZODE31
ZIDQ1
ZIDQ8
ZNEXT
ZINIT
ZLBS1
ZBS1
ZDCT0
ZDCT1
ZDCT2
ZDCT3
ZDCT4
ZDCT10
ZLCODE
ZFOST1
ZFOST0
ZLCIF
ZLBS
ZBS
ZYC7
ZYC6
VCC
VSS
VDD
CODE31
NEXT
HIGH16
RW
INIT
RESET
CLK
OEN
LBS
BS
DCT0
DCT1
DCT2
DCT3
FIFOST1
FIFOST0
LCIF
LCODE
DIR
EN
GND
PBID
PBS
PIX8
PIX7
DCT11
DCT10
C
B
A
1
2
3
4

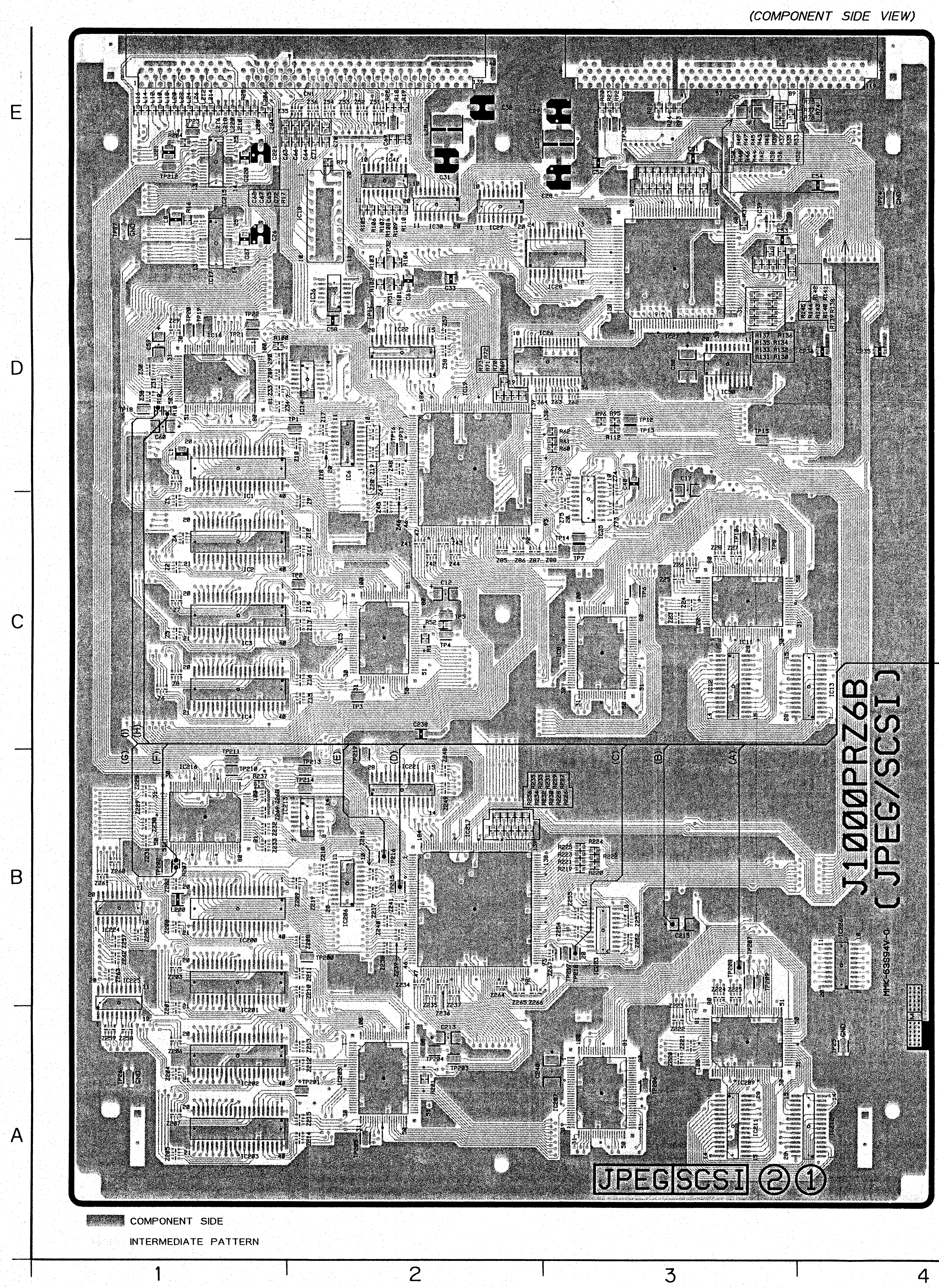
DIAGRAM OF JPEG/SCSI-2 (2/2) BOARD

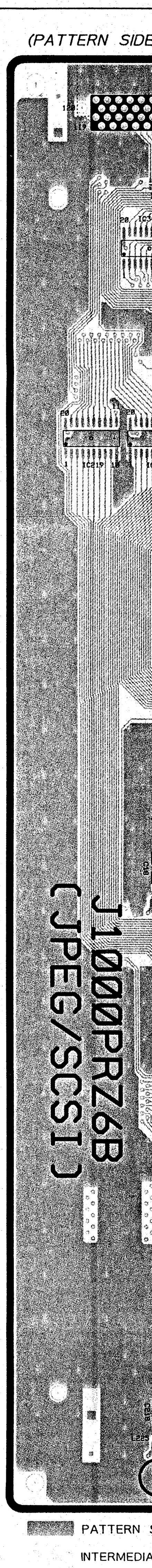

IC217
IC222
IC223
IC221
IC226
Z251
Z250
Z252
Z253
Z254
Z255
Z267
Z234
Z235
Z236
Z237
Z264
Z265
Z266
Z241
Z240
Z239
Z238
C238 104
C239 104
C237 10/16
C231 22/16
C232 22/16
L223 100
+5VB
TP218
TP217
TP219
FROM
JPEG/SCSI-2(1/2)
BOARD...SD
FROM
JPEG/SCSI-2(1/2)
BOARD...IOR, IRQ
27M2
HD
P
13R5M
FROM
JPEG/SCSI-2(1/2)
BOARD...HD


IC207
IC209
IC218
IC221
IC220
IC219
IC226
(SPARE)
IC211
IC212
IC208
IC210
IC204
Z234
Z235
Z236
Z237
Z264
Z265
Z266
Z253
Z255
Z249
Z248
Z243
Z242
Z223
Z222
Z221
Z220
Z224
Z225
Z247
Z246
Z245
Z244
CN2
+5VB
+5V
TP204
TP203
TP206
TP208
TP207
TP209
TP219
ZNEXT
ZINIT
ZRESET1
ZWRITE
ZLCODE
ZLCIF
ZFOST0
ZFOST1
ZW
ZWA
R202 221
R203 330
R238 560
R239 560
R217 103
R201 102
L202 100
L224 100
L225 100
C213 10/16
C212 120
C211 22/16
C240 22/16
C241 22/16
C237 10/16
C236 104
C235 104
C233 104
C215 10/16
C214 22/16
C216 22/16
C218 10/16
C217 10/16
C232 22/
4
5
6
7
8


IC207
IC209
IC218
IC221
IC220
IC219
IC226
(SPARE)
IC212
IC211
IC208
IC210
IC204
CN2
TP203
TP204
TP206
TP207
TP208
TP209
TP219
ZNEXT
ZINIT
ZW
+5VB
+5V
C213 10/16
R202 221
C212 120
C215 10/16
R238 560
R239 560
R203 330
C233 104
C235 104
C236 104
C237 10/16
C217 10/16
C218 10/16
L202 100
L224 100
L225 100
C240 22/16
C241 22/16
C211 22/16
C214 22/16
C216 22/16
R217 103
R201 102
Z223
Z222
Z221
Z220
Z224
Z225
Z242
Z243
Z244
Z245
Z246
Z247
Z248
Z249
Z234
Z235
Z236
Z237
Z264
Z265
Z266
4
5
6
7
8

CONDUCTOR VIEW OF J


(COMPONENT SIDE VIEW)
E
D
C
B
A
J1000PRZ6B
(JPEG/SCSI)
JPEG SCSI ② ①
MMK-63S94V-0
COMPONENT SIDE
INTERMEDIATE PATTERN
1
2
3
4


(PATTERN SIDE
J1000PRZ6B
(JPEG/SCSI)
PATTERN S
INTERMEDIA

<Index>

JPEG/SCSI-1 BOARD

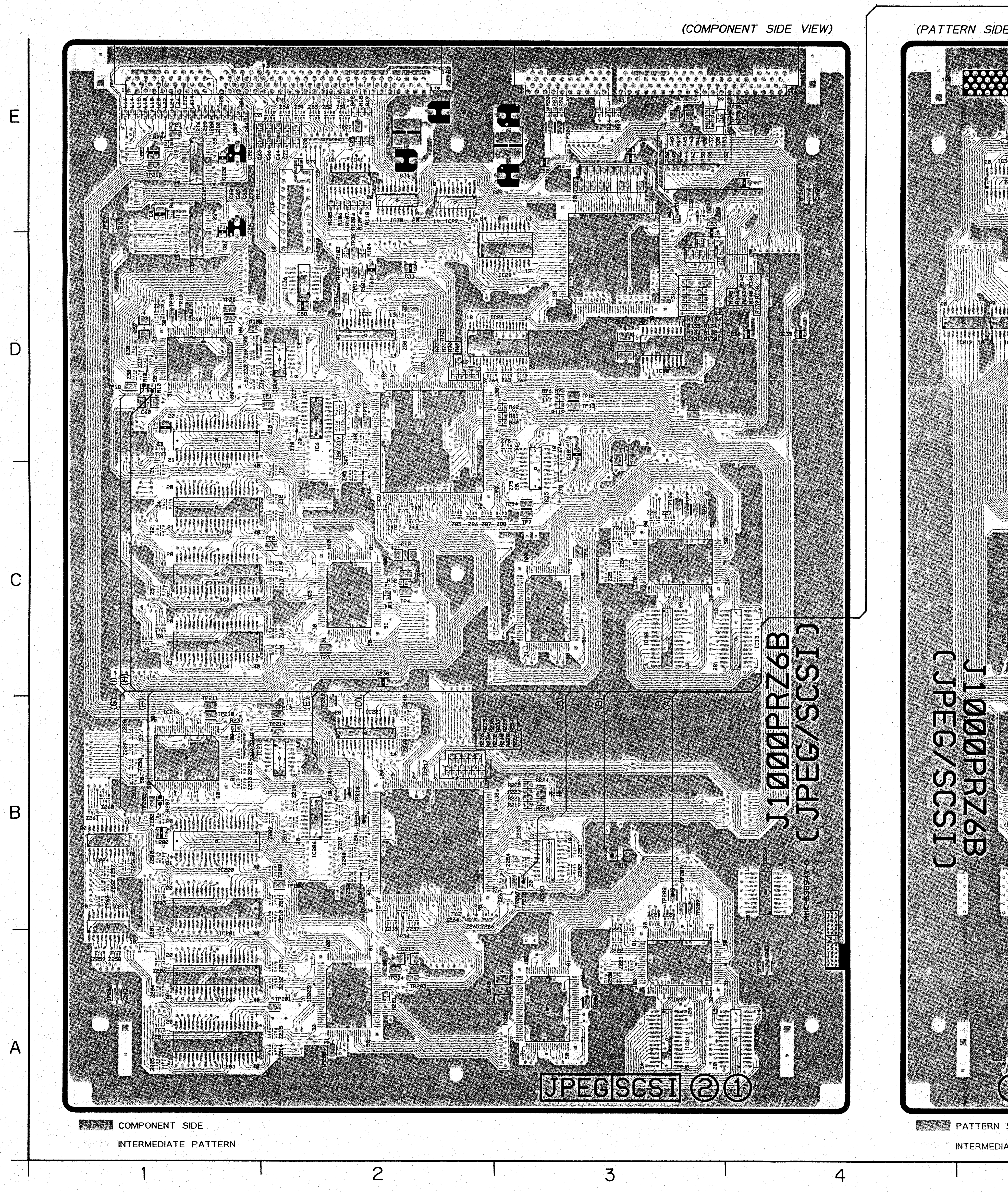
IC14	D2	IC35	C3
IC15	D7	IC36	D2
IC16	D1	IC40	D6
IC17	D1	IC41	E2
IC18	E2		
IC19	D2		
IC20	D6		
IC22	D2		

<Index>

JPEG/SCSI-2 BOARD

		IC9	C6	IC18	E2	IC30	E2	IC42	C6
IC1	D1	IC10	C5	IC19	D2	IC33	D5	IC50	D3
IC2	C1	IC11	C3	IC20	D6	IC34	E5	IC200	B1
IC3	C1	IC12	C3	IC21	D5	IC35	C3	IC201	B1
IC4	C1	IC13	C4	IC22	D2	IC36	D2	IC202	A1
IC5	C2	IC14	D2	IC26	D2	IC37	D7	IC203	A1
IC6	D2	IC15	D7	IC27	D3	IC38	D7	IC204	A6
IC7	C6	IC16	D1	IC28	D3	IC39	E3	IC205	A2
IC8	C3	IC17	D1	IC29	E2	IC41	E2	IC206	B2

CONDUCTOR VIEW OF J


(COMPONENT SIDE VIEW)
(PATTERN SIDE
J1000PRZ6B
(JPEG/SCSI)
JPEG SCSI ② ①
MMK-63594V-0
COMPONENT SIDE
INTERMEDIATE PATTERN
PATTERN S
INTERMEDIA
A
B
C
D
E
1
2
3
4

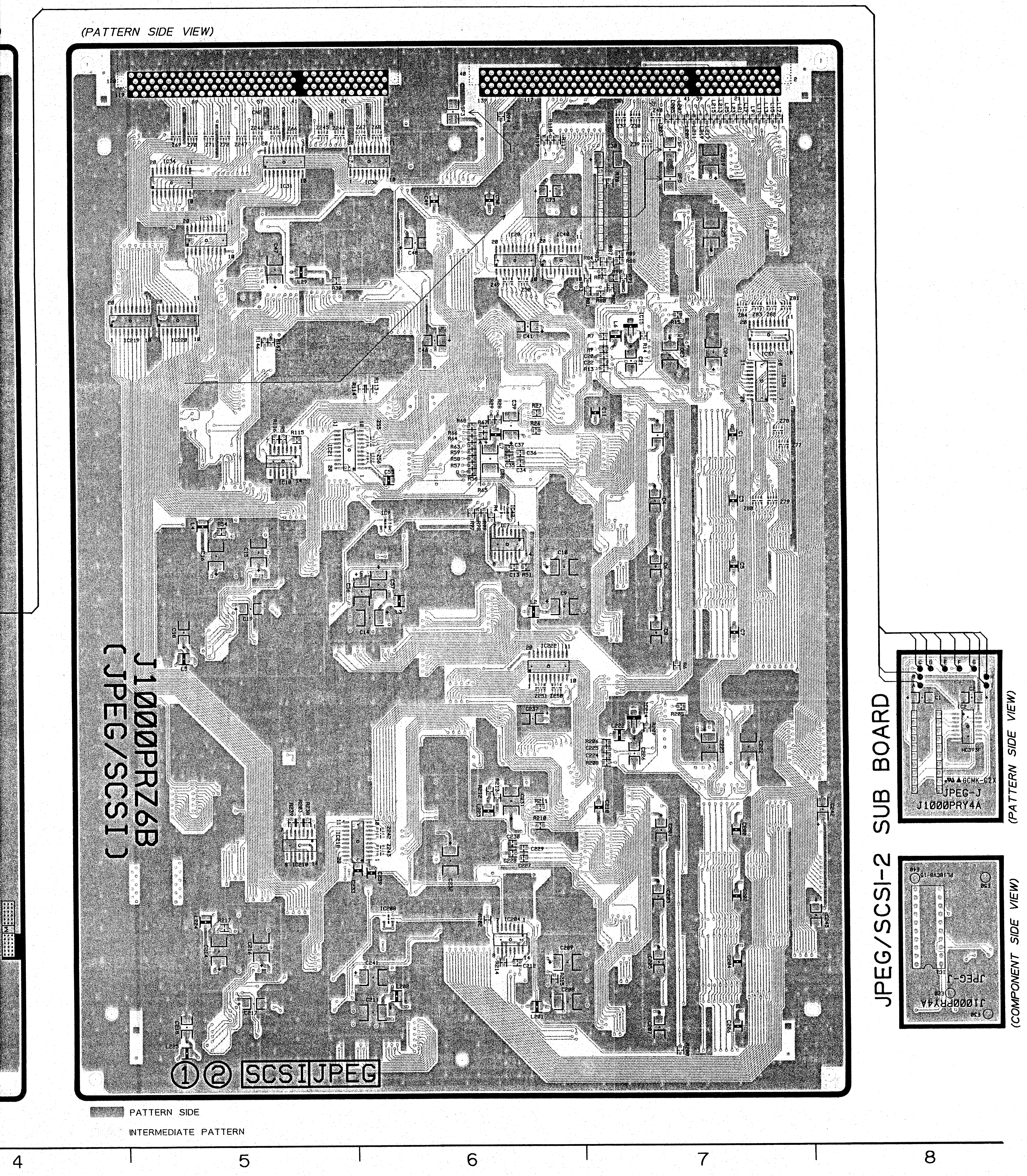
<Index>
JPEG/SCSI-1 BOARD

IC14	D2	IC35	C3
IC15	D7	IC36	D2
IC16	D1	IC40	D6
IC17	D1	IC41	E2
IC18	E2		
IC19	D2		
IC20	D6		
IC22	D2		

<Index>
JPEG/SCSI-2 BOARD

		IC9	C6	IC18	E2	IC30	E2	IC42	C6
IC1	D1	IC10	C5	IC19	D2	IC33	D5	IC50	D3
IC2	C1	IC11	C3	IC20	D6	IC34	E5	IC200	B1
IC3	C1	IC12	C3	IC21	D5	IC35	C3	IC201	B1
IC4	C1	IC13	C4	IC22	D2	IC36	D2	IC202	A1
IC5	C2	IC14	D2	IC26	D2	IC37	D7	IC203	A1
IC6	D2	IC15	D7	IC27	D3	IC38	D7	IC204	A6
IC7	C6	IC16	D1	IC28	D3	IC39	E3	IC205	A2
IC8	C3	IC17	D1	IC29	E2	IC41	E2	IC206	B2

OR VIEW OF JPEG/SCSI-1 & 2 BOARDS


(PATTERN SIDE VIEW)
J1000PRZ6B
(JPEG/SCSI)
①② SCSI JPEG
JPEG/SCSI-2 SUB BOARD
J1000PRY4A
JPEG-J
(COMPONENT SIDE VIEW)
(PATTERN SIDE VIEW)
PATTERN SIDE
INTERMEDIATE PATTERN
4
5
6
7
8

IC42	C6	IC207	A3	IC216	B1	IC225	B1
IC50	D3	IC208	B6	IC217	B2		
IC200	B1	IC209	A3	IC218	B5		
IC201	B1	IC210	B5	IC219	D5		
IC202	A1	IC211	A3	IC220	D5		
IC203	A1	IC212	A4	IC221	B2		
IC204	A6	IC213	B2	IC222	C6		
IC205	A2	IC214	B7	IC223	B1		
IC206	B2	IC215	E1	IC224	B1		

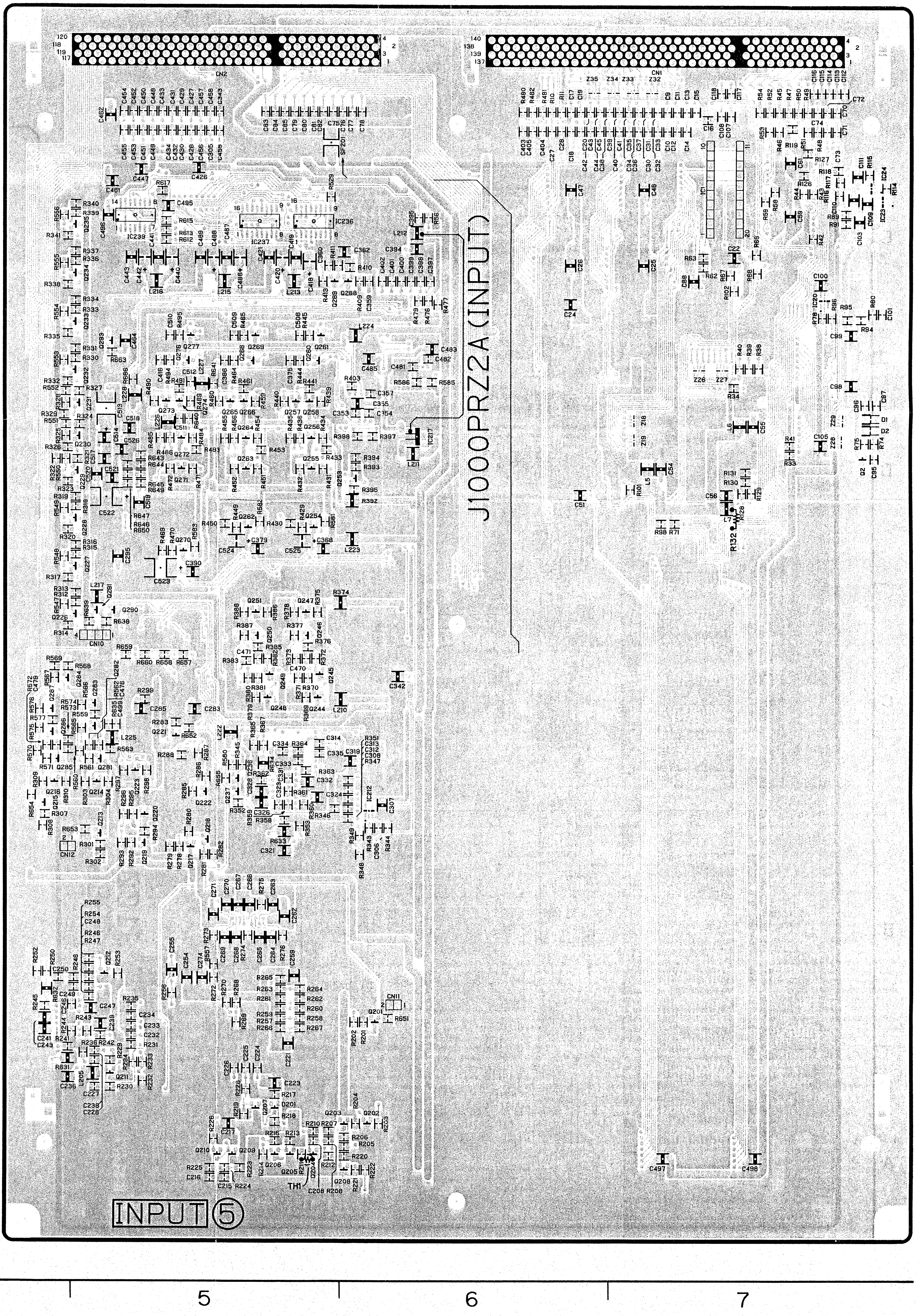
<Index>

JPEG / SCSI-2 SUB BOARD

IC1	A8
IC2	B8

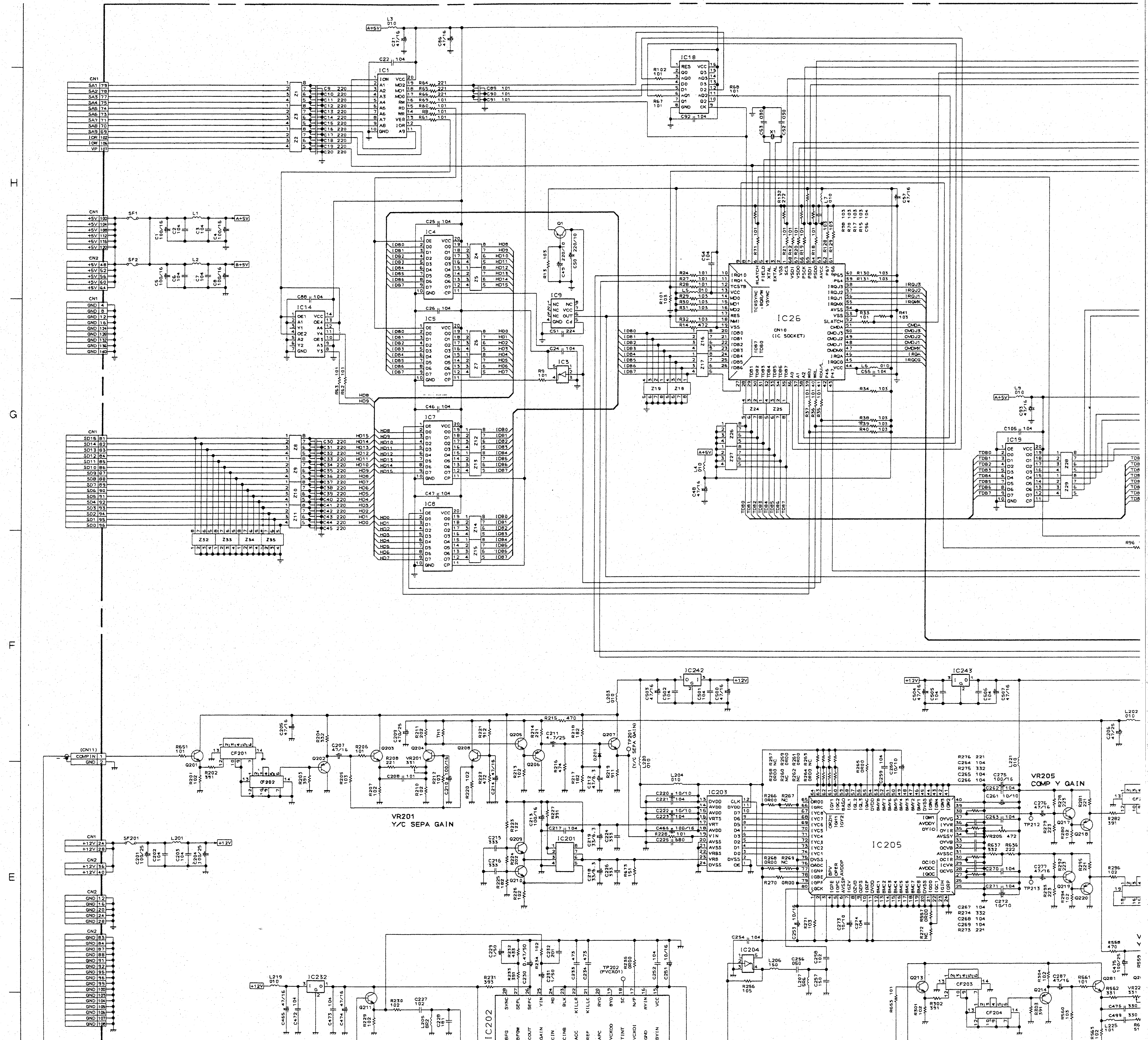
OF INPUT BOARD

(PATTERN SIDE VIEW)


J1000PRZ2A (INPUT)
INPUT⑤
CN1
CN2
CN10
CN11
CN12
IC1
IC212
IC217
IC236
IC237
IC239
SF201
5
6
7

Q228	C5	Q239	C3	Q250	C5	Q261	D5	Q272	D5	Q286	C4	D1	D7	D210	A1
Q229	C5	Q240	C3	Q251	C5	Q262	C5	Q273	D5	Q287	C4	D2	D7	D211	A1
Q230	D5	Q241	C4	Q252	C3	Q263	D5	Q274	D5	Q288	D6	D201	A5	D212	A1
Q231	D5	Q242	C4	Q253	C6	Q264	D5	Q275	D3	Q289	D5	D202	A2	D213	A1
Q232	D5	Q243	C3	Q254	C5	Q265	D5	Q276	D5	Q290	C5	D203	A1	D214	A1
Q233	D5	Q244	C5	Q255	D5	Q266	D5	Q277	D5	Q291	C5	D204	A1		
Q234	D5	Q245	C5	Q256	D5	Q267	D3	Q281	B5	Q292	D4	D205	A1		
Q235	D5	Q246	C5	Q257	D5	Q268	D5	Q282	C5	Q293	D5	D206	A1		
Q236	B5	Q247	C5	Q258	D5	Q269	D5	Q283	C5	Q294	D4	D207	A1		
Q237	B5	Q248	C5	Q259	D3	Q270	C5	Q284	C4			D208	A1		
Q238	C3	Q249	C5	Q260	D5	Q271	D5	Q285	B4			D209	A1		

SCHEMATIC DIAGRAM OF INPU


H
G
F
E
CN1
CN2
CN11
IC1
IC4
IC5
IC7
IC8
IC9
IC14
IC18
IC19
IC26
CN10
(IC SOCKET)
IC201
IC202
IC203
IC204
IC205
IC232
IC242
IC243
SF1
SF2
SF201
A+5V
B+5V
+12V
VR201
Y/C SEPA GAIN
VR205
COMP V GAIN
CF201
CF202
CF203
CF204
TP202
(FVCXO1)
TP212
TP213
COMP IN
GND

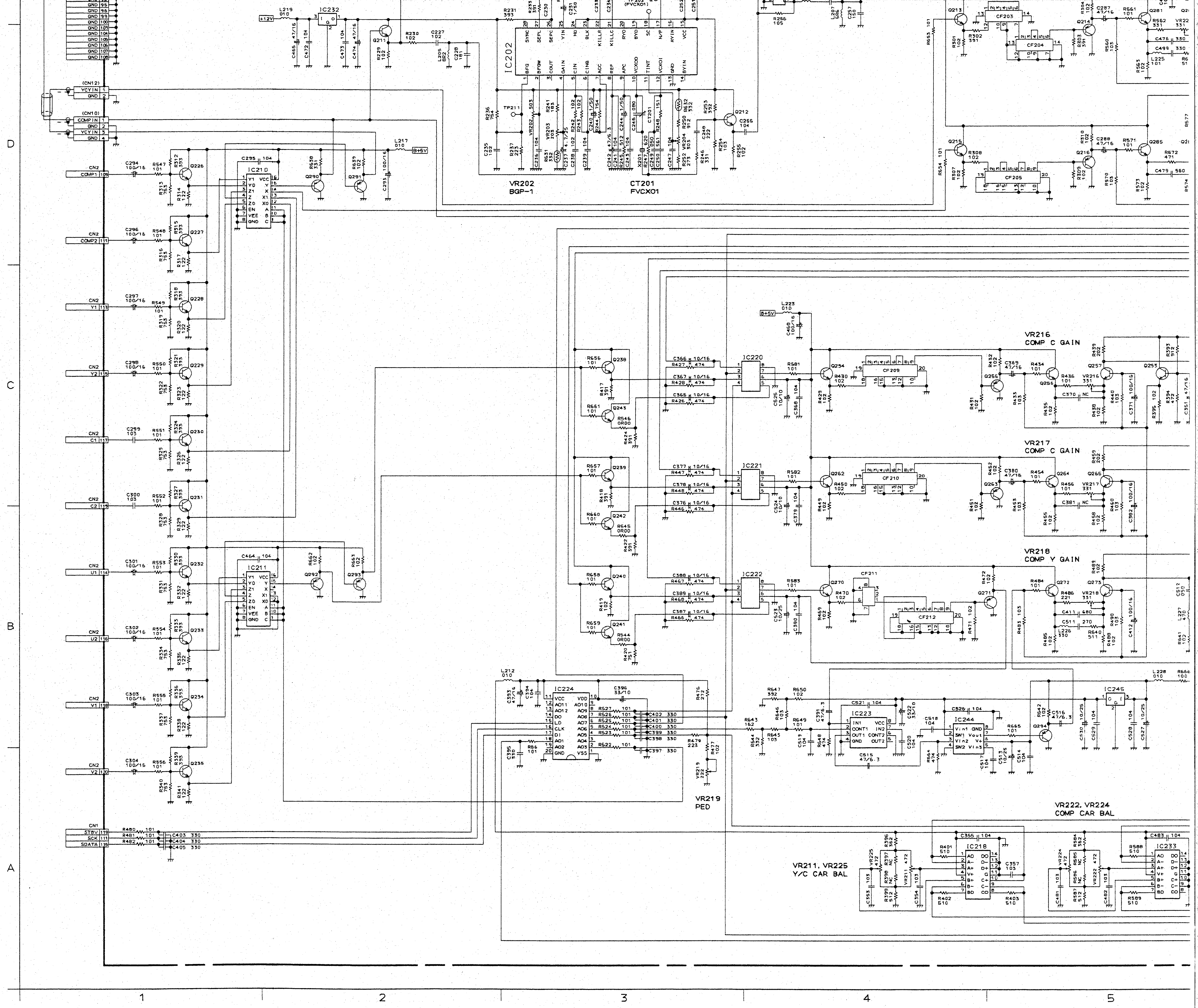
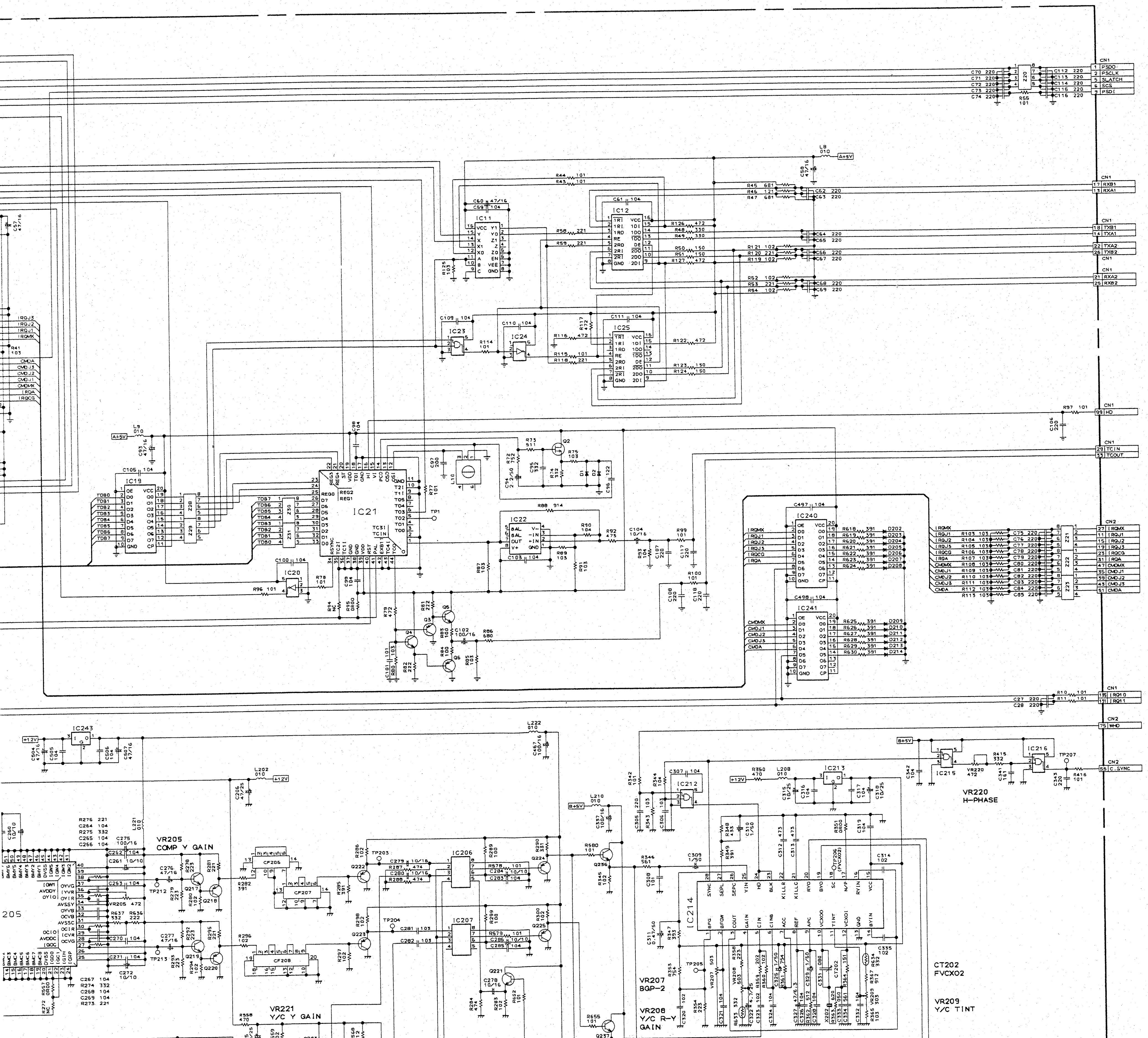

D
C
B
A
1
2
3
4
5
(CN12)
YCYIN
GND
(CN10)
COMPIN
GND
YCYIN
GND
CN2
COMP1
CN2
COMP2
CN2
Y1
CN2
Y2
CN2
C1
CN2
C2
CN2
U1
CN2
U2
CN2
V1
CN2
V2
CN1
STBY
SCK
SDATA
IC232
IC202
IC210
IC211
IC220
IC221
IC222
IC223
IC224
IC244
IC245
IC218
IC233
+12V
B+5V
TP211
VR202
BGP-1
CT201
FVCX01
CF203
CF204
CF205
CF209
CF210
CF211
CF212
VR216
COMP C GAIN
VR217
COMP C GAIN
VR218
COMP Y GAIN
VR219
PED
VR222, VR224
COMP CAR BAL
VR211, VR225
Y/C CAR BAL

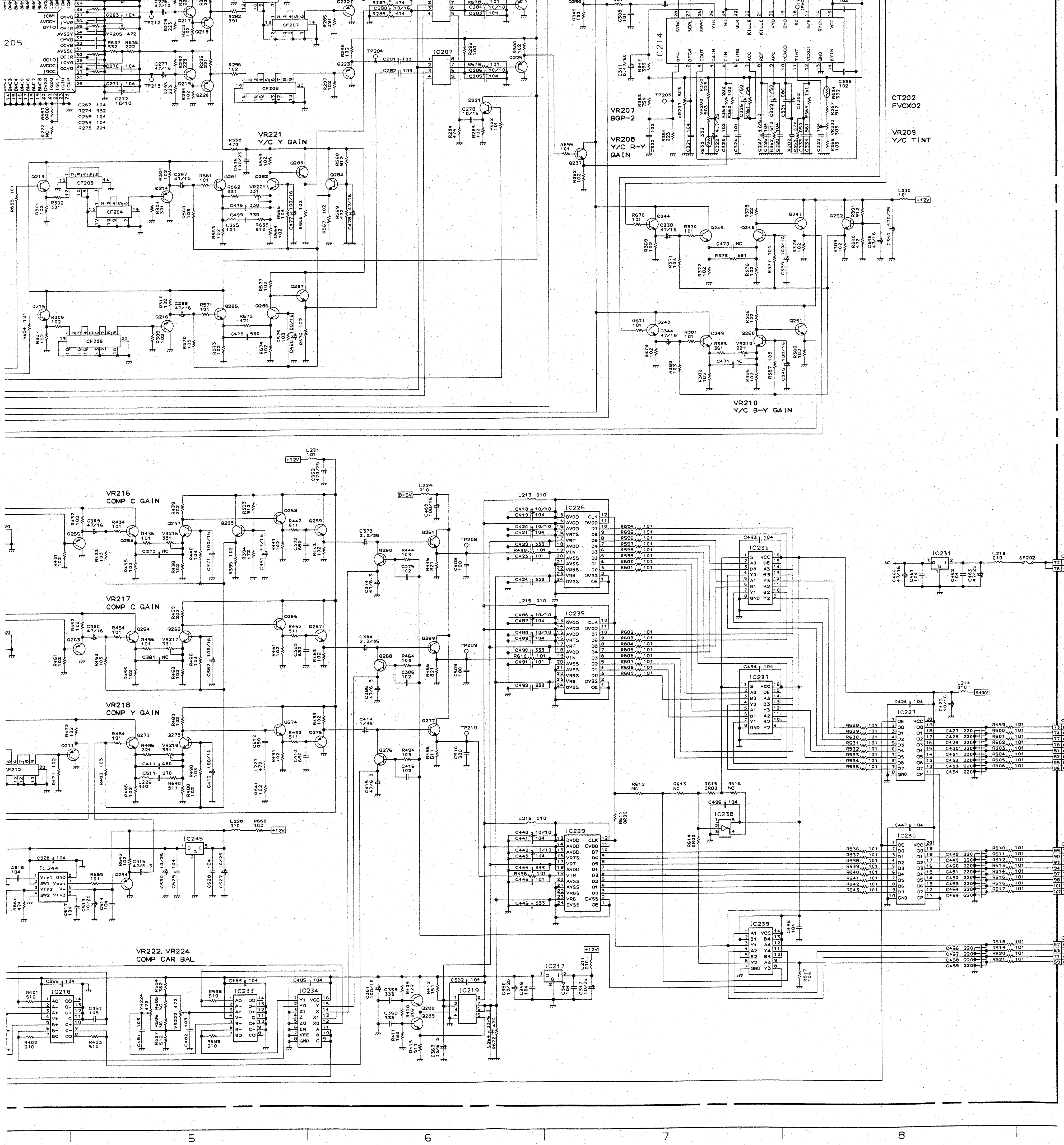
DIAGRAM OF INPUT BOARD


CN1
PSDO
PSCLK
SLATCH
SCS
PSDI
RXB1
RXA1
TXB1
TXA1
TXA2
TXB2
RXA2
RXB2
HD
TCIN
TCOUT
CN2
IRQMX
IRQJ1
IRQJ2
IRQJ3
IRQCG
IRQA
CMDMX
CMDJ1
CMDJ2
CMDJ3
CMDA
IRQ10
IRQ11
MHD
C.SYNC
IC11
IC12
IC19
IC20
IC21
IC22
IC23
IC24
IC25
IC240
IC241
IC243
IC206
IC207
IC212
IC213
IC214
IC215
IC216
Q1
Q2
Q3
Q4
Q5
Q6
A+5V
+12V
B+5V
VR205
COMP Y GAIN
VR220
H-PHASE
VR221
Y/C Y GAIN
VR207
BGP-2
VR206
Y/C R-Y
GAIN
CT202
FVCXO2
VR209
Y/C TINT
CF205
CF206
CF207
CF208
TP203
TP204
TP205
TP207
TP212
TP213

<Index>

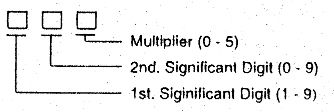
INPUT BOARD

IC1	H2
IC3	G3
IC4	H2
IC5	G2
IC7	G2
IC8	G2
IC9	G3
IC11	H6
IC12	H7
IC14	G2
IC18	H3
IC19	G5
IC20	F5
IC21	G6
IC22	G6
IC23	G6
IC24	G6
IC25	G7
IC26 (IC10)	G4
IC201	E3
IC202	D3
IC203	E4
IC204	E4
IC205	E4
IC206	E6
IC207	E6
IC210	D1
IC211	B1
IC212	F7
IC213	F8
IC214	E7
IC215	F8
IC216	F8
IC217	A7
IC218	A4
IC219	A6
IC220	C4
IC221	C4
IC222	B4
IC223	B4
IC224	B3
IC226	C7
IC227	B8
IC229	B7
IC230	B8
IC231	C8
IC232	E2
IC233	A5
IC234	A6
IC235	C7
IC236	C7
IC237	B7
IC238	B7
IC239	A7
IC240	G7
IC241	F7
IC242	F3
IC243	F5
IC244	B4
IC245	B5
Q1	H3
Q2	G6
Q3	F6
Q4	F6
Q5	F6
Q6	F6
Q201	F1
Q271	B5
Q272	B5
Q273	B5
Q274	B5
Q275	B6
Q276	B6
Q277	B6
Q281	E5
Q282	E5
Q283	E5
Q284	E6
Q285	D5
Q286	D5
Q287	D5
Q288	A6
Q289	A6
Q290	D2
Q291	D2
Q292	B2
Q293	B2
Q294	B5
D1	G7
D2	G7
D201	F3
D202	G8
D203	G8
D204	G8
D205	G8
D206	G8
D207	G8
D208	G8
D209	F8
D210	F8
D211	F8
D212	F8
D213	F8
D214	F8


VR221
Y/C Y GAIN
VR207
BGP-2
VR208
Y/C R-Y
GAIN
CT202
FVCXO2
VR209
Y/C TINT
IC214
VR210
Y/C B-Y GAIN
VR216
COMP C GAIN
VR217
COMP C GAIN
VR218
COMP Y GAIN
VR222, VR224
COMP CAR BAL
IC226
IC235
IC229
IC236
IC237
IC238
IC239
IC227
IC230
IC231
IC245
IC244
IC218
IC233
IC234
IC219
IC217
CN2
5
6
7
8

IC242	F3
IC243	F5
IC244	B4
IC245	B5
Q1	H3
Q2	G6
Q3	F6
Q4	F6
Q5	F6
Q6	F6
Q201	F1
Q202	E2
Q203	F2
Q204	F2
Q205	F3
Q206	F3
Q207	F3
Q208	F3
Q209	E3
Q210	E3
Q211	D2
Q212	D3
Q213	E4
Q214	D5
Q215	D4
Q216	D5
Q217	E5
Q218	E5
Q219	E5
Q220	E5
Q221	E6
Q222	E6
Q223	E6
Q224	E6
Q225	E6
Q226	D1
Q227	D1
Q228	C1
Q229	C1
Q230	C1
Q231	C1
Q232	B1
Q233	B1
Q234	B1
Q235	A1
Q236	E7
Q237	E7
Q238	C3
Q239	C3
Q240	B3
Q241	B3
Q242	B3
Q243	C3
Q244	D7
Q245	D7
Q246	D7
Q247	D8
Q248	D7
Q249	D7
Q250	D7
Q251	D8
Q252	D8
Q253	C5
Q254	C4
Q255	C5
Q256	C5
Q257	C5
Q258	C5
Q259	C6
Q260	C6
Q261	C6
Q262	C4
Q263	C5
Q264	C5
Q265	C5
Q266	C6
Q267	C6
Q268	B6
Q269	C6
Q270	B4

Note: **The value indicated in the schematic diagram should be read as follows**


Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Significant Digit (1 - 9)

<Example>

For Resistor:

330 → 33×10^0 = 33 Ω
561 → 56×10^1 = 560 Ω
123 → 12×10^3 = 12k Ω
0R00 = 0 Ω

For Capacitor:

820 → 82×10^0 = 82 pF
102 → 10×10^2 = 1000 pF = 0.001 µF
104 → 10×10^4 = 100000 pF = 0.1 µF

The suffix attached to capacitance indicates a type of capacitor.

SCHEMATIC DIAGRAM OF AU

<Index>

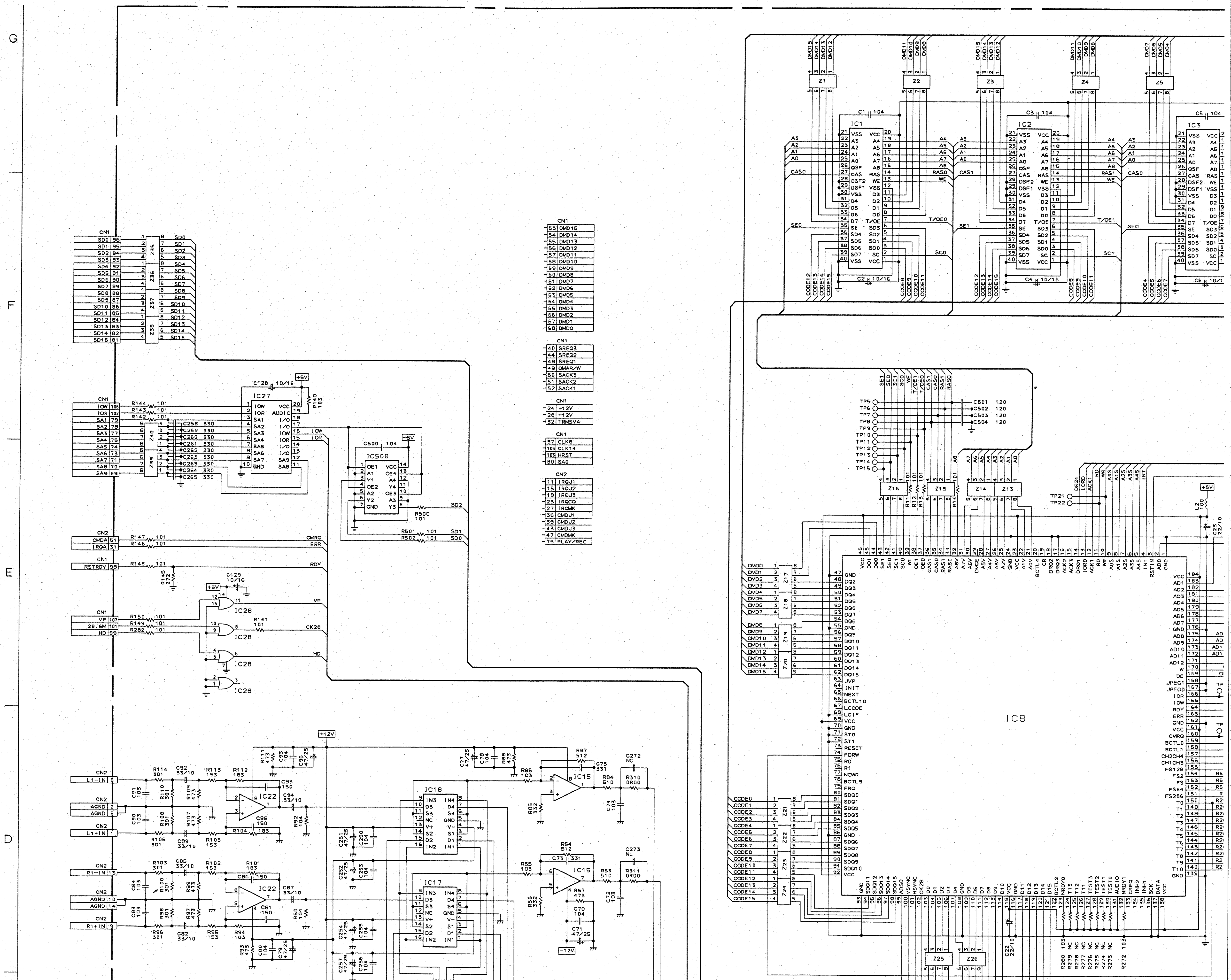
AUDIO BOARD

IC1	G4
IC2	G4
IC3	G5
IC4	G6
IC5	E5
IC6	D6
IC7	C3
IC8	D4
IC9	B4
IC11	C5
IC12	C5
IC13	B5
IC15	D3
IC16	C2
IC17	D2
IC18	D2
IC19	A1, B1
IC20	B1
IC21	C1
IC22	D1
IC23	F6, F7
IC25	F7
IC26	F8
IC27	F1
IC28	E1
IC30	D7
IC31	C7, D7
IC32	D8
IC33	C8, D8
IC34	C8
IC35	B8, C8
IC36	B8
IC37	G6
IC38	D7
IC39	C7, D7
IC40	A5
IC42	C6
IC43	B3
IC500	E2
Q1	A8
Q2	A8
Q3	E8
Q5	D8
Q7	D8
Q9	D8
Q11	C8
Q13	C8
Q15	C8
Q17	B8
Q19	B8
Q21	B8
Q23	B8
Q25	A8
Q26	A8
Q27	E8
Q28	E8
Q29	E8
D1	A8
D2	A8
D3	E8
D5	E8

<Index>

AUDIO SUB BOARD

IC1	C4
IC2	C4
IC3	C5

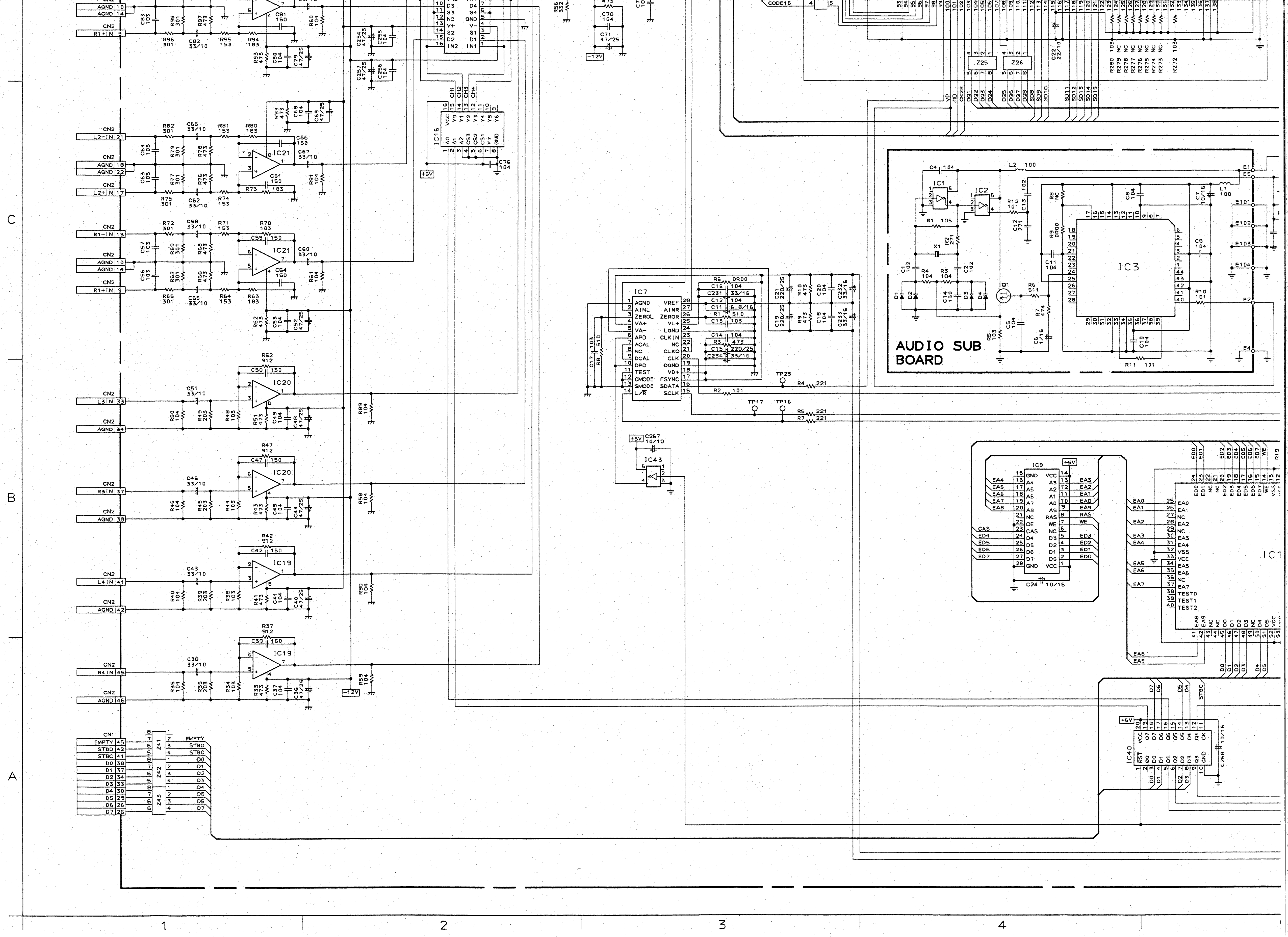


G
F
E
D
IC1
IC2
IC3
Z1
Z2
Z3
Z4
Z5
CN1
CN2
Z35
Z36
Z37
Z38
Z39
Z40
IC27
IC500
IC28
IC22
IC18
IC17
IC15
IC8
Z13
Z14
Z15
Z16
Z17
Z18
Z19
Z20
Z21
Z22
Z23
Z24
Z25
Z26
+5V
+12V
-12V

<Index>

AUDIO SUB BOARD

IC1	C4
IC2	C4
IC3	C5
Q1	C4
D1	C4
D2	C4
D3	C4
D4	C4



AUDIO SUB BOARD
IC1
IC2
IC3
IC7
IC9
IC16
IC19
IC20
IC21
IC40
IC43
CN1
CN2
Z25
Z26
Z41
Z42
Z43
TP16
TP17
TP25
+5V
-12V
C
B
A
1
2
3
4

Note: The value indicated in the schematic diagram should be read as follows

☐ ☐ ☐

Multiplier (0 - 5)

2nd. Significant Digit (0 - 9)

1st. Significant Digit (1 - 9)

<Example>

For Resistor:

330 → 33 x 10^0 = 33 Ω

561 → 56 x 10^1 = 560 Ω

123 → 12 x 10^3 = 12k Ω

0R00 = 0 Ω

For Capacitor:

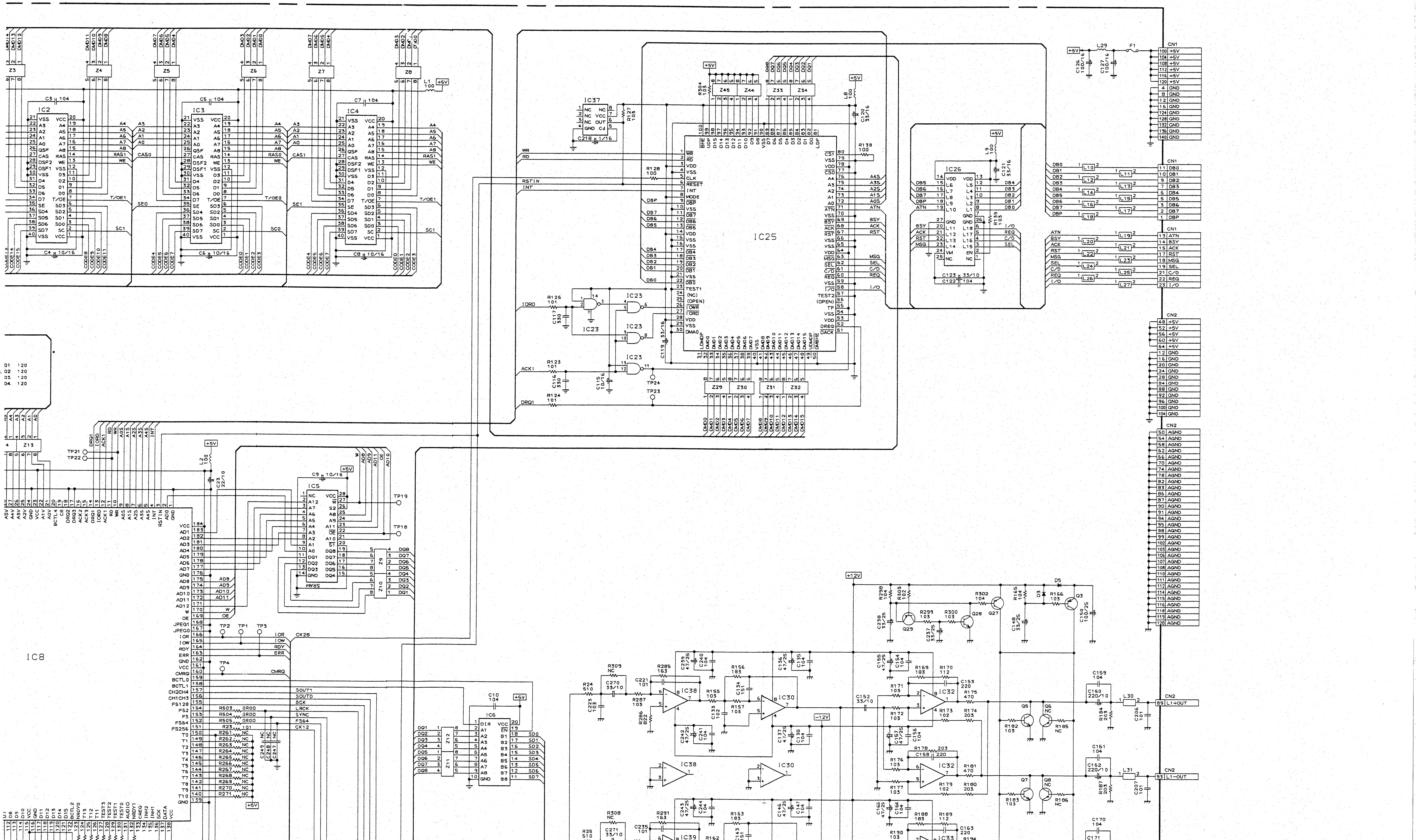
820 → 82 x 10^0 = 82 pF

102 → 10 x 10^2 = 1000 pF = 0.001 μF

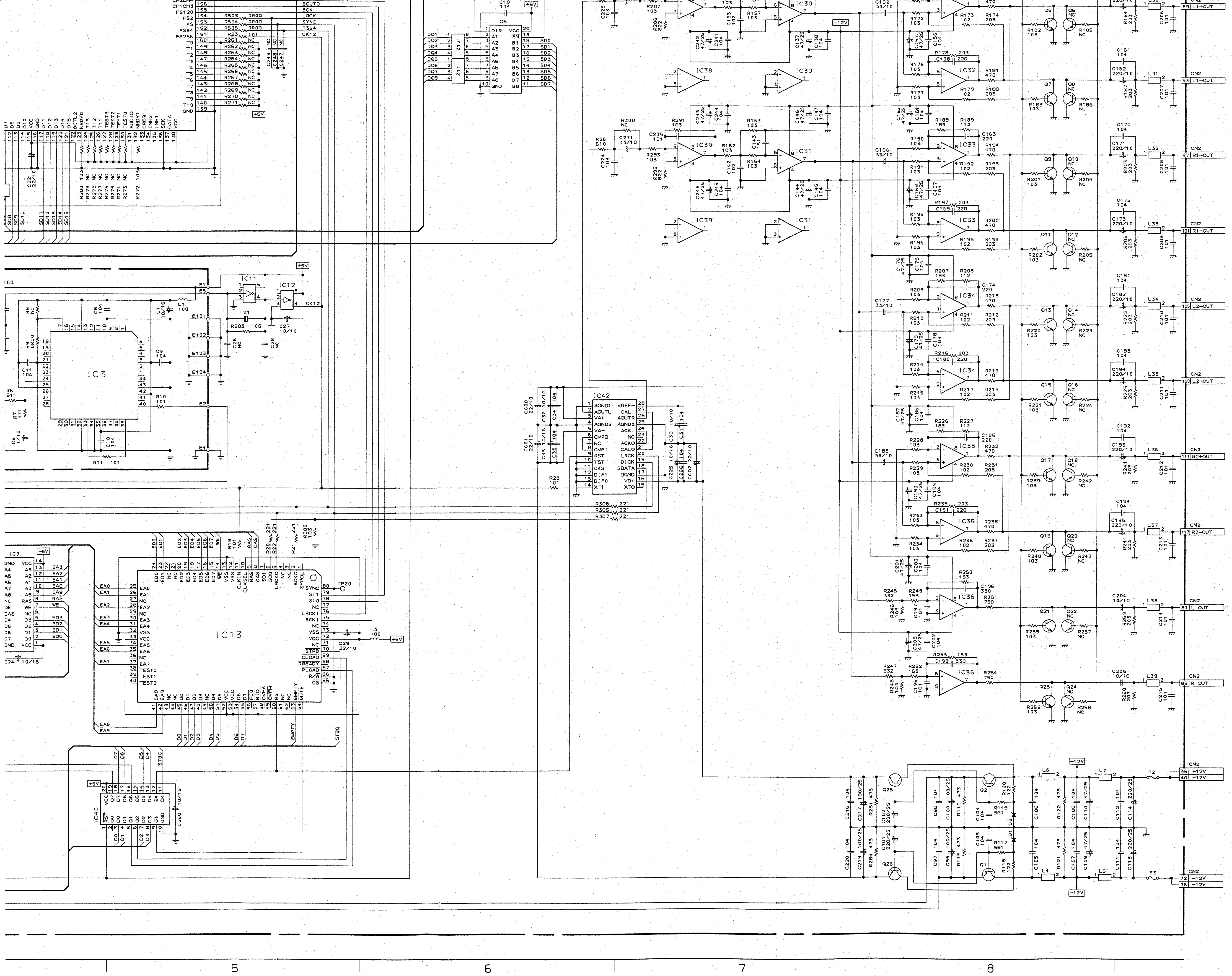
104 → 10 x 10^4 = 100000 pF = 0.1 μF

The suffix attached to capacitance indicates a type of capacitor.

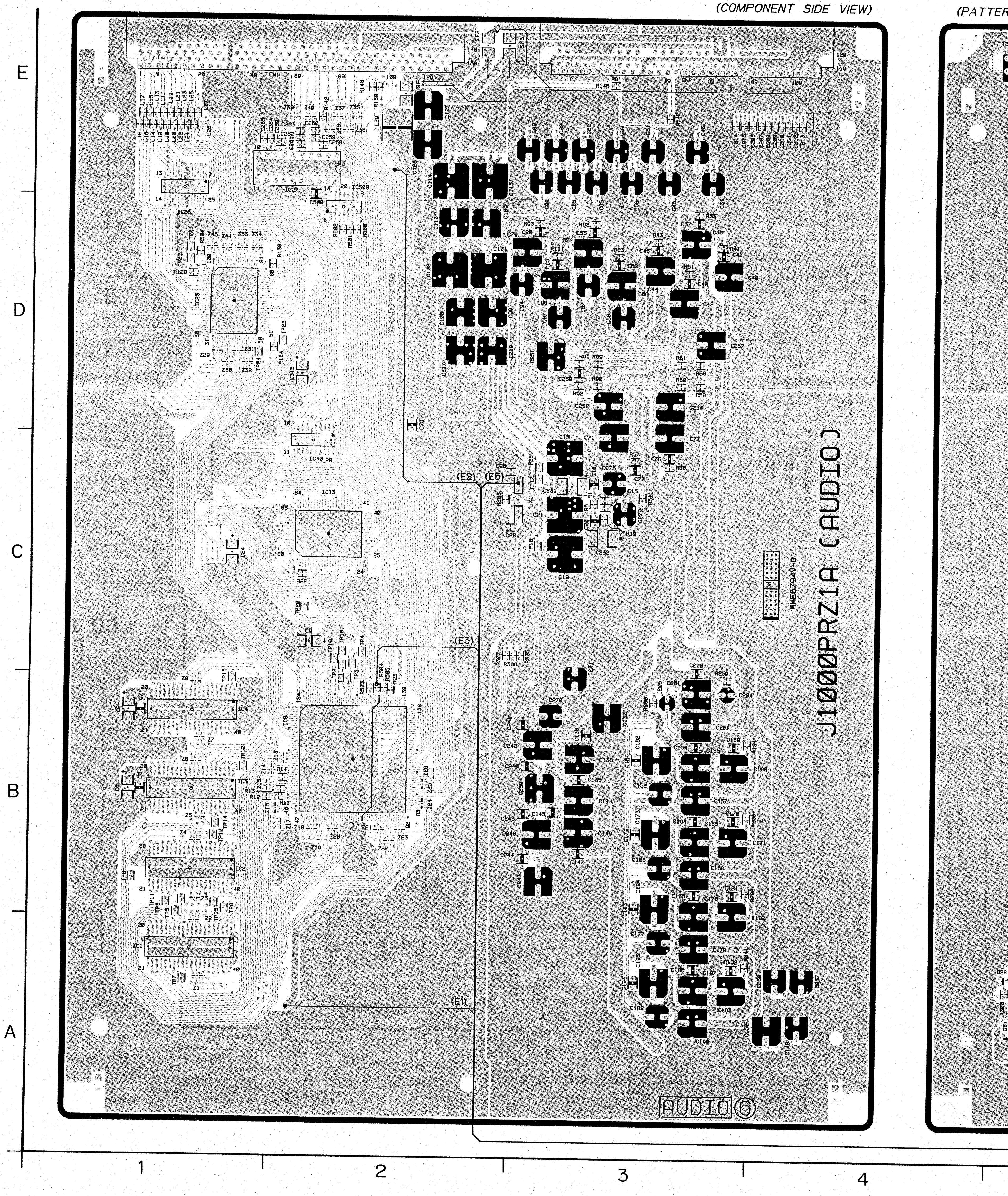
TIC DIAGRAM OF AUDIO BOARD



Z3
Z4
Z5
Z6
Z7
Z8
IC2
IC3
IC4
C3 104
C5 104
C7 104
C4 10/16
C6 10/16
C8 10/16
L1 100
+5V
CAS0
CAS1
RAS0
RAS1
T/OE1
T/OE0
SE0
SE1
SC1
SC0
IC37
C218 1/16
R127 103
R304 103
Z45
Z44
Z33
Z34
L8 100
C120 33/16
R138 100
IC25
R128 100
WR
RD
RSTIN
INT
IORD
ACK1
DRQ1
R125 101
R123 101
R124 101
C117 330
C116 330
C115 10/16
C119 33/16
IC23
TP24
TP23
Z29
Z30
Z31
Z32
IC26
L9 100
C121 33/16
R139 103
C123 33/10
C122 104
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
L21
L22
L23
L24
L25
L26
L27
L29
F1
C126 100/16
C127 100/16
CN1
CN2
Z13
TP21
TP22
L2 100
C23 22/10
IC5
C9 10/16
TP19
TP18
Z9
Z10
SRM
IC8
TP2
TP1
TP3
TP4
CK28
CMRQ
SOUT1
SOUT0
BCK
LRCK
SYNC
FS64
CK12
R503 0R00
R504 0R00
R505 0R00
R23 101
C249
C248
C247
IC6
C10 104
Z12
Z11
+12V
-12V
R298 104
R303 102
R302 104
R165 104
D5
D3
R166 103
Q3
Q29
Q28
Q27
R299 103
R300 103
C238 33/25
C237 33/25
C148 33/25
C150 100/25
IC38
IC30
IC32
R309 NC
R285 163
C239 47/25
C240 104
R156 183
C136 47/25
C135 104
C155 47/25
C154 104
R169 183
R170 112
C153 220
R24 510
C270 33/10
C221 101
R287 103
R286 822
C223 NC
R155 103
C134 151
R157 103
C133 102
C242 47/25
C241 104
C137 47/25
C138 104
C152 33/10
R171 103
R172 103
R173 102
R174 203
R175 470
C157 47/25
C156 104
R178 203
C158 220
R176 103
R177 103
R179 102
R180 203
R181 470
C159 104
C160 220/10
L30
R184 203
C206 101
Q5
Q6 NC
Q7
Q8 NC
R182 103
R185 NC
R183 103
R186 NC
C161 104
C162 220/10
L31
R187 203
C207 101
L1+OUT
L1-OUT
R308 NC
R291 163
C243 47/25
C244 104
R163 183
C146 47/25
C147 104
C165 47/25
C164 104
R188 183
R189 112
C163 220
R25 510
C271 33/10
C235 101
IC39
R162
IC33
R190 103
R194
C170 104
C171


IC3
IC6
IC9
IC11
IC12
IC13
IC30
IC31
IC32
IC33
IC34
IC35
IC36
IC38
IC39
IC40
IC42
AGND1
AOUTL
VA+
AGND2
VA-
CMPO
NC
CMPI
RST
TST
CKS
DIF1
DIF0
XTI
VREF-
CALI
AOUTR
AGND3
ACKI
NC
ACKO
CALO
LRCK
BICK
SDATA
DGND
VD+
XTO
+5V
+12V
-12V
CK12
X1
CN2
L1+OUT
L1-OUT
R1+OUT
R1-OUT
L2+OUT
L2-OUT
R2+OUT
R2-OUT
L OUT
R OUT
+12V
+12V
-12V
-12V
F2
F3
Q1
Q2
Q25
Q26
SOUT0
BCK
LRCK
SYNC
FS64
CK12
EA0
EA1
EA2
EA3
EA4
EA5
EA6
EA7
EA8
EA9
TEST0
TEST1
TEST2
SYNC
SI1
SI0
LRCKI
BCKI
VSS
VCC
STRB
CLOAD
DREADY
PLOAD
R/W
CS
EMPTY
MUTE
STBC
TP20
5
6
7
8

CONDUCTOR VIEW C


(COMPONENT SIDE VIEW)
(PATTER
J1000PRZ1A (AUDIO)
MHE6794V-0
AUDIO 6
A
B
C
D
E
1
2
3
4

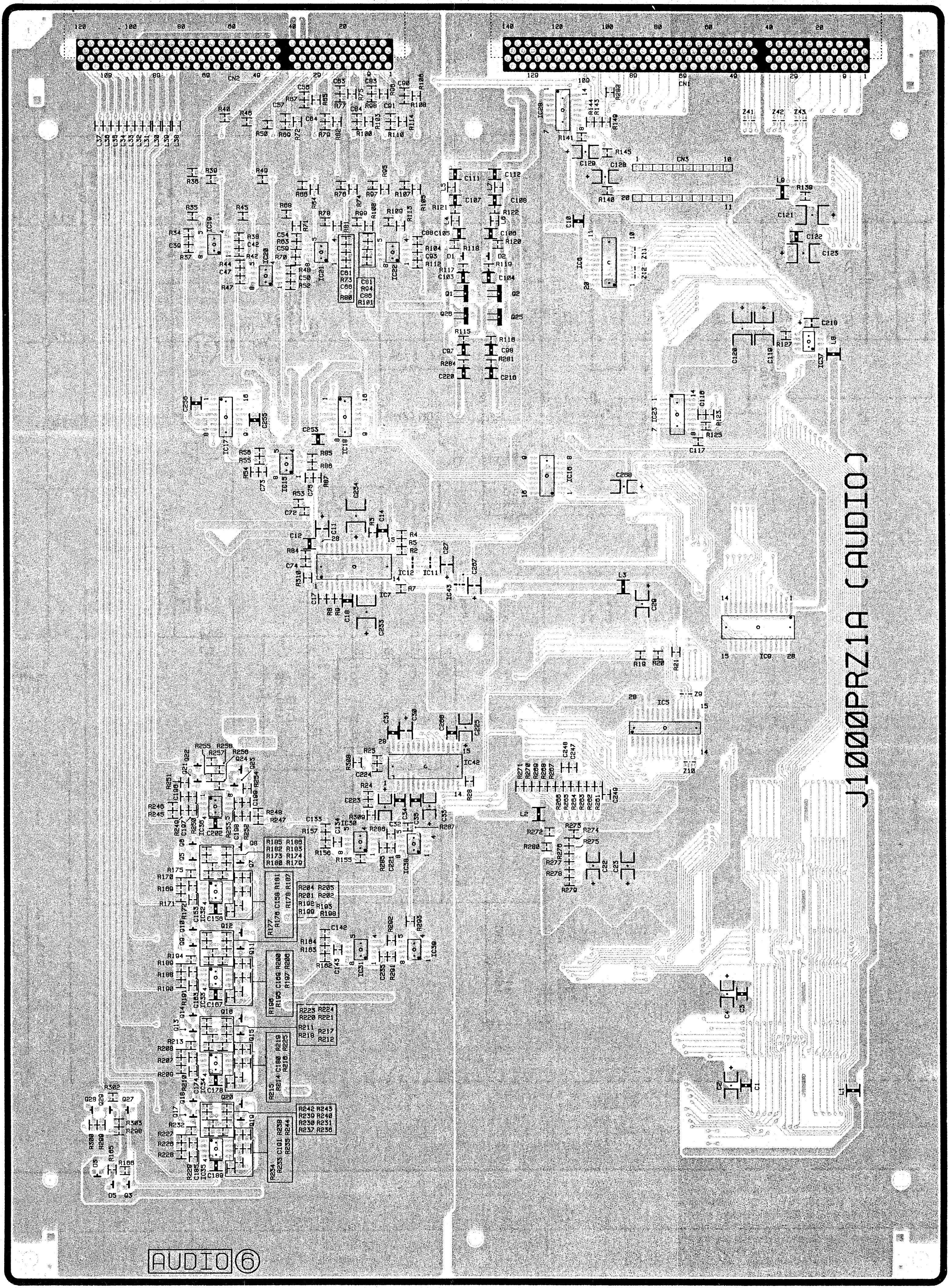
<Index>

AUDIO BOARD

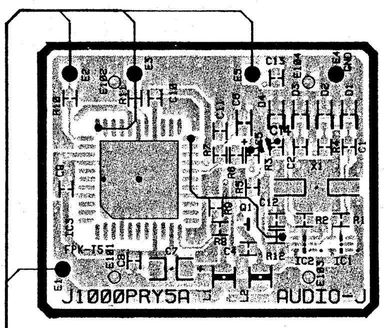
IC1	A1	IC12	C6	IC23	D7	IC35	A5	Q1	D6	Q19	A5	D1	D6
IC2	B1	IC13	C2	IC25	D1	IC36	B5	Q2	D6	Q21	B5	D2	D6
IC3	B1	IC15	D5	IC26	E1	IC37	D7	Q3	A5	Q23	B5	D3	A5
IC4	B1	IC16	D6	IC27	E2	IC38	B6	Q5	B5	Q25	D6	D5	A5
IC5	C7	IC17	D5	IC28	E6	IC39	B6	Q7	B5	Q26	D6		
IC6	D6	IC18	D5	IC30	B6	IC40	C2	Q9	B5	Q27	A5		
IC7	C6	IC19	D5	IC31	B6	IC42	C6	Q11	B5	Q28	A5		
IC8	B2	IC20	D5	IC32	B5	IC43	C6	Q13	B5	Q29	A5		
IC9	C7	IC21	D5	IC33	B5	IC500	D2	Q15	B5				
IC11	C6	IC22	D6	IC34	A5			Q17	A5				

R VIEW OF AUDIO BOARD

(PATTERN SIDE VIEW)


J1000PRZ1A (AUDIO)
AUDIO 6
CN1
CN2
CN3

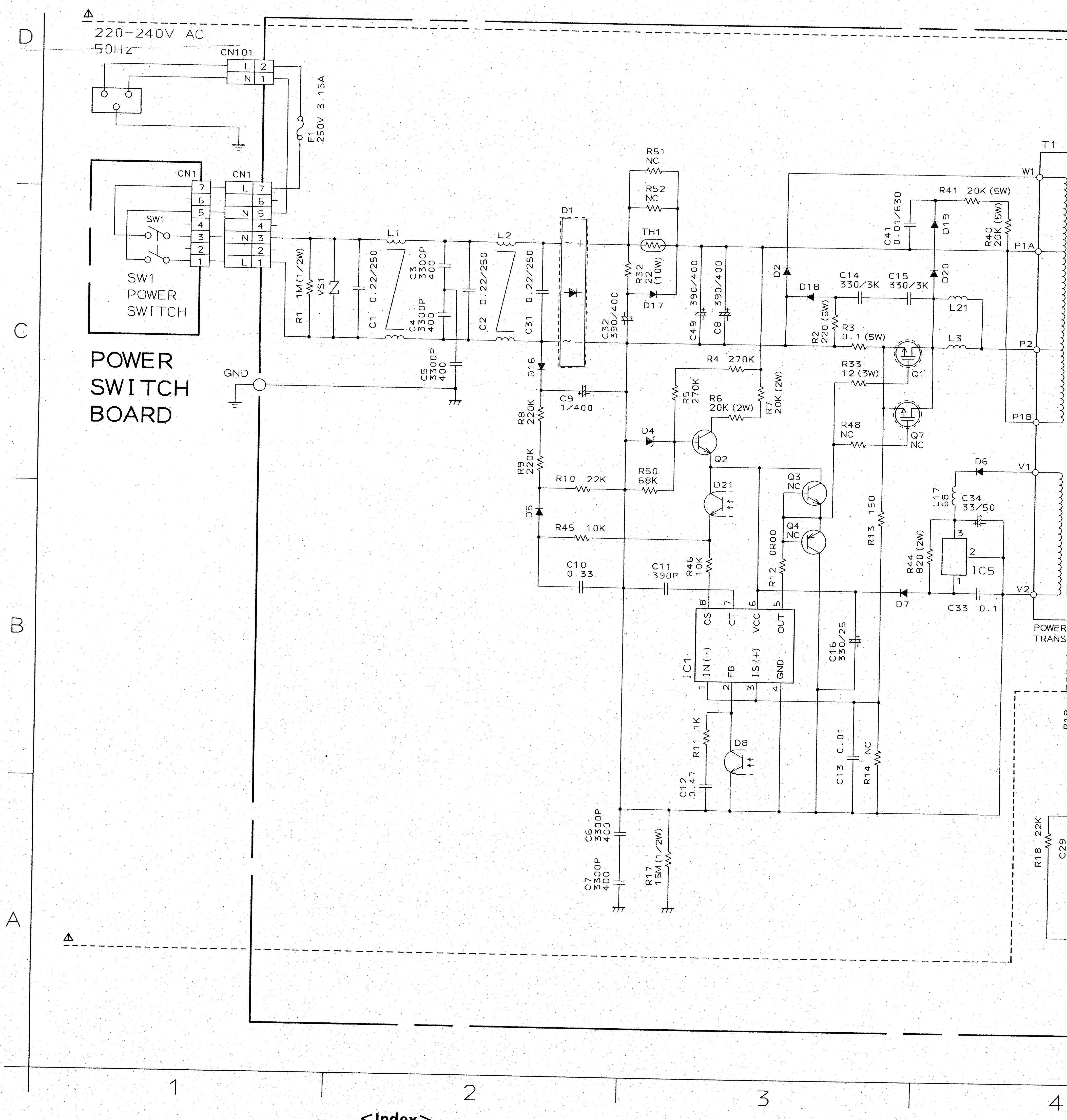
AUDIO SUB BOARD


J1000PRYSA
AUDIO-J
E1
E2
E3
E4
GND

▨ COMPONENT SIDE
PATTERN SIDE

5 6 7 8

SCHEMATIC DIAGRAM



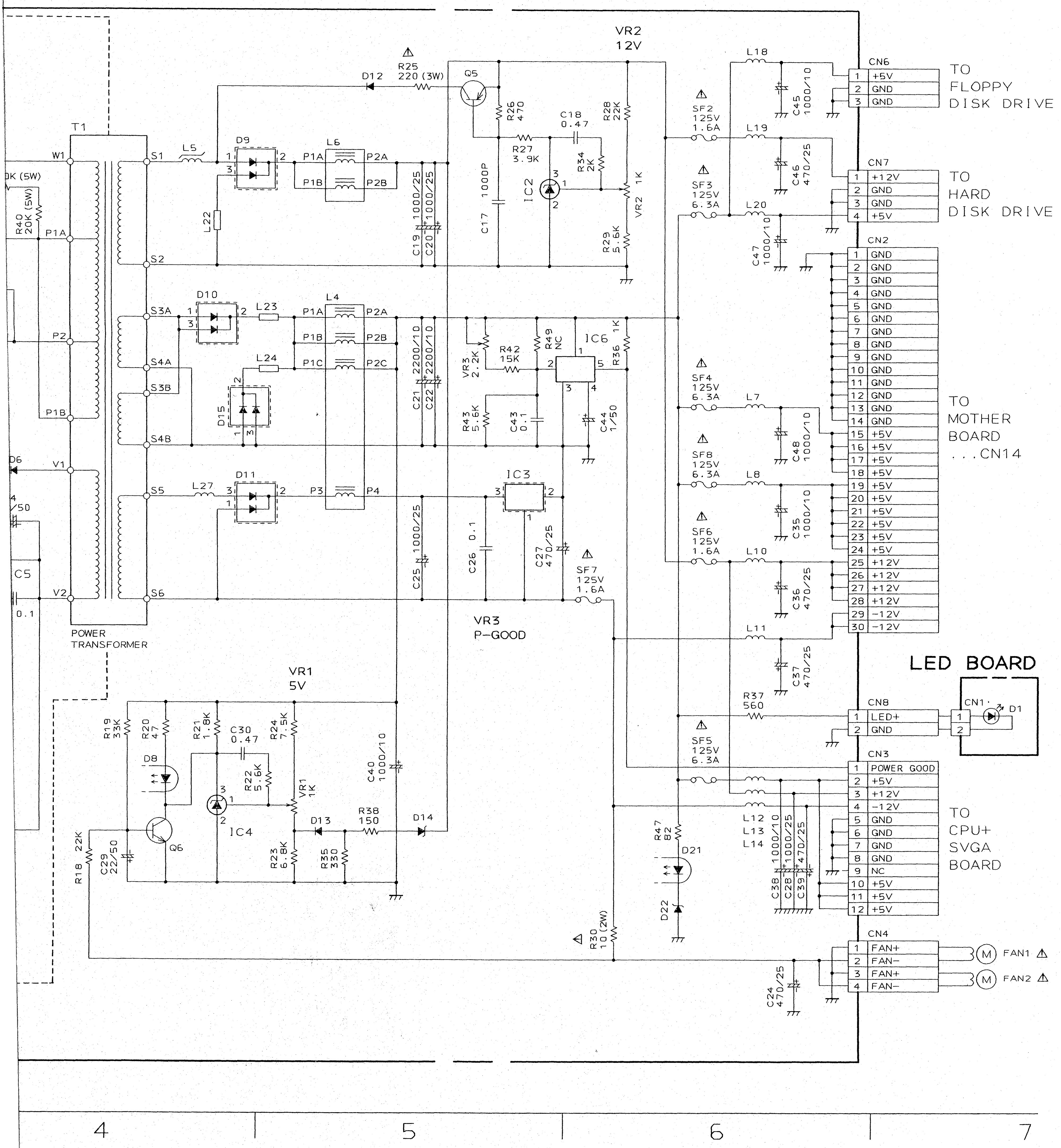
220-240V AC
50Hz
CN101
F1 250V 3.15A
CN1
SW1
SW1 POWER SWITCH
POWER SWITCH BOARD
GND
R1 1M(1/2W)
VS1
C1 0.22/250
L1
C3 3300P 400
C4 3300P 400
C5 3300P 400
C2 0.22/250
L2
C31 0.22/250
D1
D16
R8 220K
R9 220K
D5
C9 1/400
R10 22K
R45 10K
C10 0.33
C11 390P
R46 10K
C32 390/400
R32 22 (10W)
D17
TH1
R51 NC
R52 NC
C49 390/400
C8 390/400
D4
R50 68K
R5 270K
R4 270K
R6 20K (2W)
R7 20K (2W)
Q2
D21
Q3 NC
Q4 NC
R12 0R00
IC1
IN(-)
FB
IS(+)
GND
CS
CT
VCC
OUT
C16 330/25
R11 1K
D8
C12 0.47
C13 0.01
R14 NC
R13 150
C6 3300P 400
C7 3300P 400
R17 15M(1/2W)
D2
D18
R2 220 (5W)
R3 0.1 (5W)
C14 330/3K
C15 330/3K
D20
D19
C41 0.01/630
R41 20K (5W)
R40 20K (5W)
L21
L3
R33 12 (3W)
Q1
R48 NC
Q7 NC
D6
L17 68
C34 33/50
R44 820 (2W)
IC5
D7
C33 0.1
T1
W1
P1A
P2
P1B
V1
V2
POWER TRANS
R18 22K
C29
A
B
C
D
1
2
3
4

<Index>

POWER BOARD

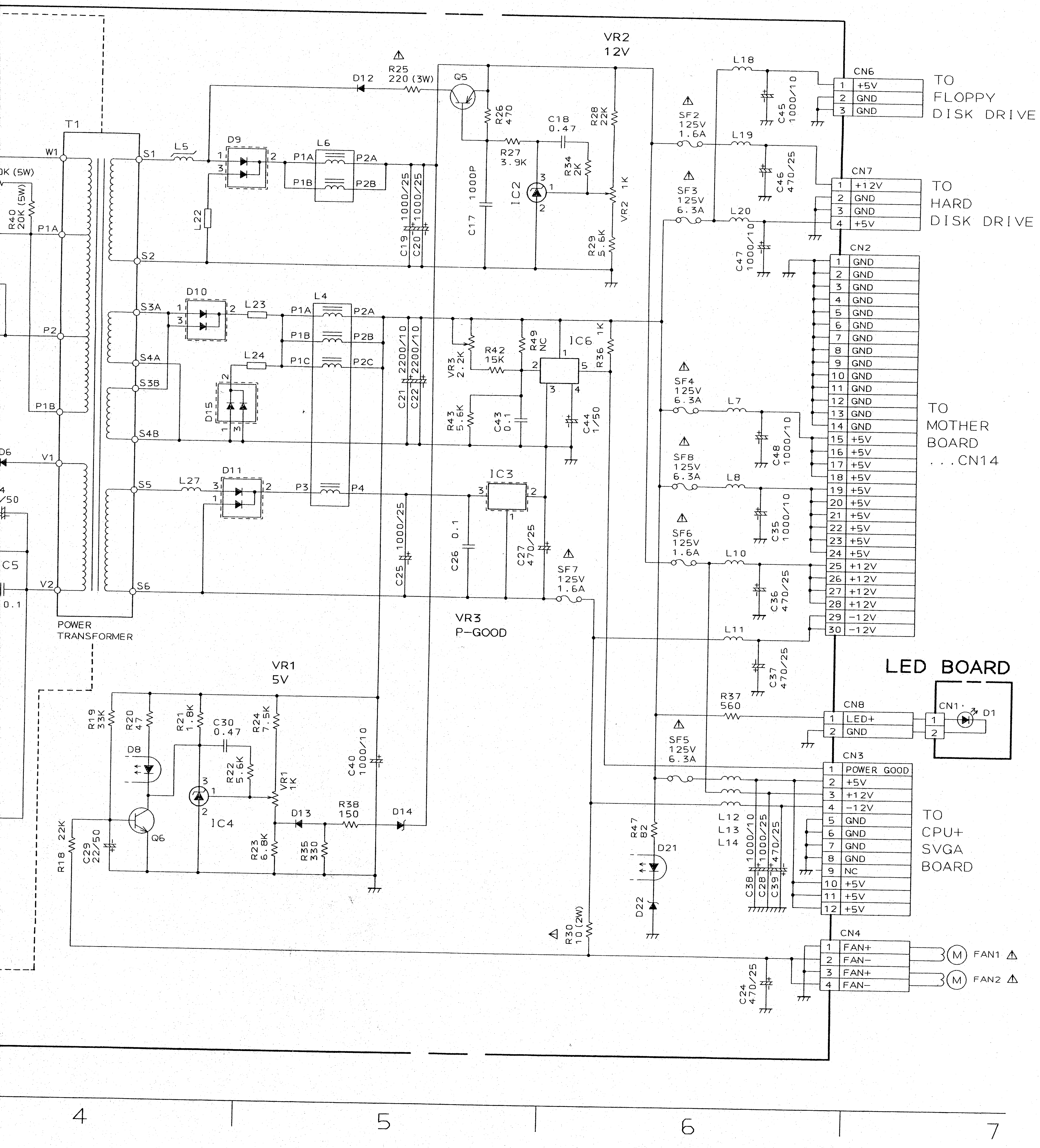
IC1	B3	D1	C2	D13	A5
IC2	D5	D2	C3	D14	A5
IC3	C5	D4	C3	D15	C4
IC4	A4	D5	B2	D16	C2
IC5	B4	D6	C4	D17	C3
IC6	C6	D7	B3	D18	C3
		D8	B3, B4	D19	C4
Q1	C3	D9	D4	D20	C4
Q2	C3	D10	C4	D21	A6, B3
Q5	D5	D11	C4	D22	A6
Q6	A4	D12	D5		

GRAM OF POWER BOARD


T1
POWER TRANSFORMER
W1
P1A
P2
P1B
V1
V2
S1
S2
S3A
S4A
S3B
S4B
S5
S6
R40 20K (5W)
D6
C5
0.1
L5
L22
D9
L6
D10
L23
L4
L24
D15
D11
L27
P1A
P1B
P1C
P2A
P2B
P2C
P3
P4
C19 1000/25
C20 1000/25
C21 2200/10
C22 2200/10
C25 1000/25
D12
R25 220 (3W)
Q5
R26 470
C17 1000P
R27 3.9K
C18 0.47
R34 2K
IC2
R28 22K
VR2 1K
R29 5.6K
VR2
12V
VR3 2.2K
R42 15K
R49 NC
IC6
R36 1K
R43 5.6K
C43 0.1
C44 1/50
IC3
C26 0.1
C27 470/25
SF7 125V 1.6A
VR3
P-GOOD
VR1
5V
R19 33K
R20 47
D8
R21 1.8K
C30 0.47
R22 5.6K
R24 7.5K
VR1 1K
IC4
Q6
R18 22K
C29 22/50
D13
R23 6.8K
R35 330
R38 150
D14
C40 1000/10
R30 10 (2W)
SF2 125V 1.6A
SF3 125V 6.3A
SF4 125V 6.3A
SF8 125V 6.3A
SF6 125V 1.6A
SF5 125V 6.3A
L18
L19
L20
L7
L8
L10
L11
L12
L13
L14
C45 1000/10
C46 470/25
C47 1000/10
C48 1000/10
C35 1000/10
C36 470/25
C37 470/25
C38 1000/10
C28 1000/25
C39 470/25
C24 470/25
R37 560
R47 82
D21
D22
CN6
1 +5V
2 GND
3 GND
TO FLOPPY DISK DRIVE
CN7
1 +12V
2 GND
3 GND
4 +5V
TO HARD DISK DRIVE
CN2
1 GND
2 GND
3 GND
4 GND
5 GND
6 GND
7 GND
8 GND
9 GND
10 GND
11 GND
12 GND
13 GND
14 GND
15 +5V
16 +5V
17 +5V
18 +5V
19 +5V
20 +5V
21 +5V
22 +5V
23 +5V
24 +5V
25 +12V
26 +12V
27 +12V
28 +12V
29 -12V
30 -12V
TO MOTHER BOARD ...CN14
LED BOARD
CN8
1 LED+
2 GND
CN1
D1
CN3
1 POWER GOOD
2 +5V
3 +12V
4 -12V
5 GND
6 GND
7 GND
8 GND
9 NC
10 +5V
11 +5V
12 +5V
TO CPU+ SVGA BOARD
CN4
1 FAN+
2 FAN-
3 FAN+
4 FAN-
M
FAN1
FAN2
4
5
6
7

<Index>
LED BOARD
D1 B7

GRAM OF POWER BOARD

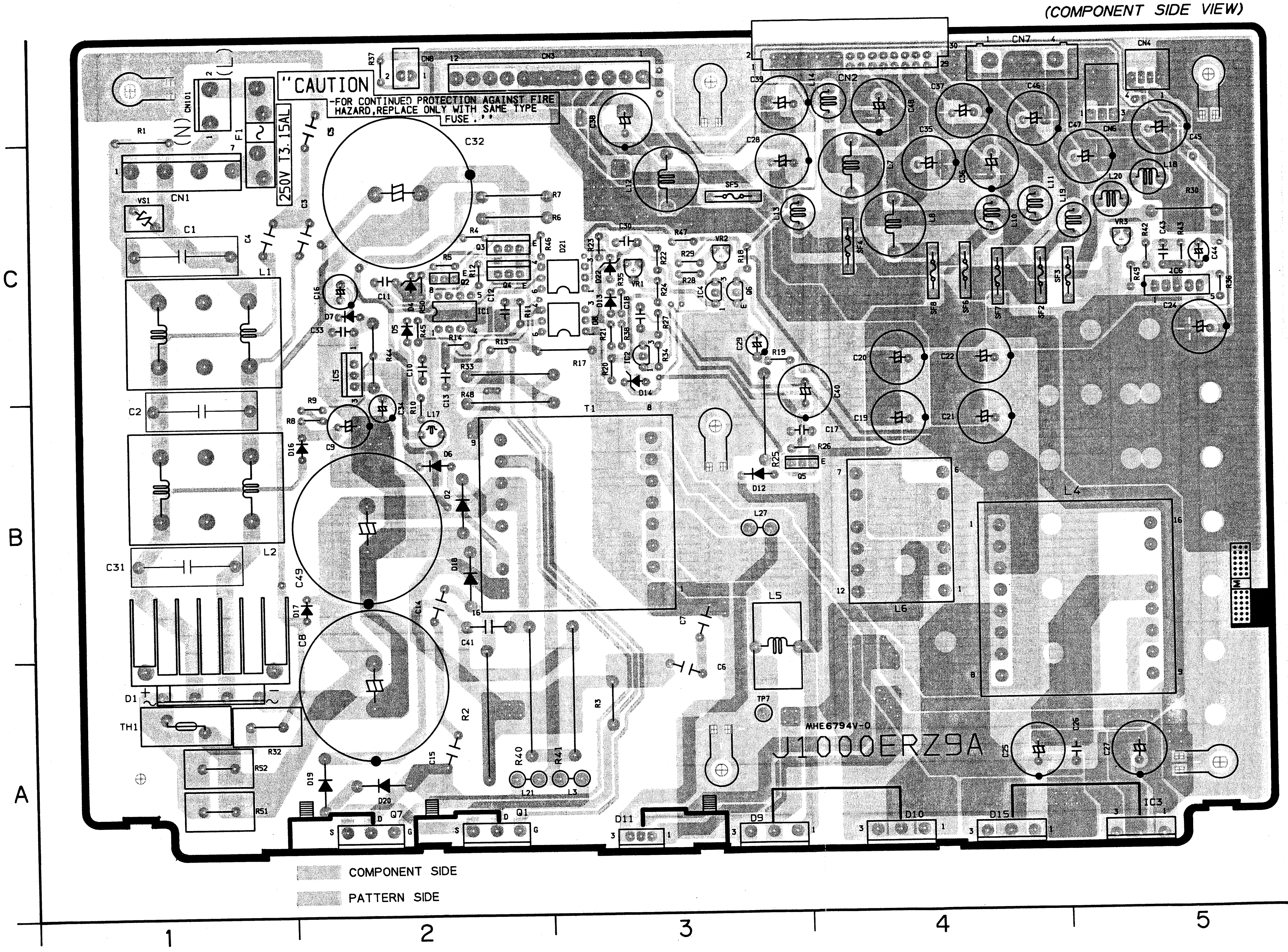

T1
POWER TRANSFORMER
W1
P1A
P2
P1B
V1
V2
R40 20K (5W)
D6
C5
0.1
S1
S2
S3A
S4A
S3B
S4B
S5
S6
L5
D9
L6
P1A
P2A
P1B
P2B
L22
D10
L23
L4
P1C
P2C
L24
D15
D11
L27
P3
P4
D12
R25 220 (3W)
Q5
R26 470
R27 3.9K
C18 0.47
R28 22K
R34 2K
IC2
VR2 1K
R29 5.6K
C17 1000P
C19 1000/25
C20 1000/25
VR2 12V
C21 2200/10
C22 2200/10
VR3 2.2K
R42 15K
R49 NC
IC6
R36 1K
R43 5.6K
C43 0.1
C44 1/50
IC3
C25 1000/25
C26 0.1
C27 470/25
SF7 125V 1.6A
VR3 P–GOOD
VR1 5V
R19 33K
R20 47
R21 1.8K
C30 0.47
R24 7.5K
D8
R22 5.6K
VR1 1K
IC4
Q6
R18 22K
C29 22/50
R23 6.8K
R35 330
D13
R38 150
D14
C40 1000/10
R30 10 (2W)
R47 82
D21
D22
L18
L19
L20
C45 1000/10
C46 470/25
C47 1000/10
SF2 125V 1.6A
SF3 125V 6.3A
SF4 125V 6.3A
SF8 125V 6.3A
SF6 125V 1.6A
SF5 125V 6.3A
L7
L8
L10
L11
C48 1000/10
C35 1000/10
C36 470/25
C37 470/25
R37 560
L12
L13
L14
C38 1000/10
C28 1000/25
C39 470/25
C24 470/25
CN6
1 +5V
2 GND
3 GND
TO FLOPPY DISK DRIVE
CN7
1 +12V
2 GND
3 GND
4 +5V
TO HARD DISK DRIVE
CN2
1 GND
2 GND
3 GND
4 GND
5 GND
6 GND
7 GND
8 GND
9 GND
10 GND
11 GND
12 GND
13 GND
14 GND
15 +5V
16 +5V
17 +5V
18 +5V
19 +5V
20 +5V
21 +5V
22 +5V
23 +5V
24 +5V
25 +12V
26 +12V
27 +12V
28 +12V
29 –12V
30 –12V
TO MOTHER BOARD ...CN14
LED BOARD
CN8
1 LED+
2 GND
CN1
D1
CN3
1 POWER GOOD
2 +5V
3 +12V
4 –12V
5 GND
6 GND
7 GND
8 GND
9 NC
10 +5V
11 +5V
12 +5V
TO CPU+ SVGA BOARD
CN4
1 FAN+
2 FAN–
3 FAN+
4 FAN–
FAN1
FAN2
4
5
6
7

<Index>

LED BOARD	
D1	B7

CONDUCTOR VIEW OF POWER BOARD

(COMPONENT SIDE VIEW)

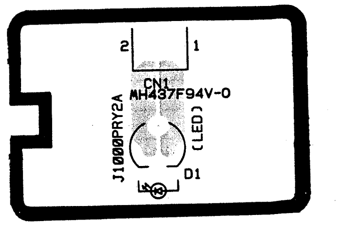


"CAUTION
-FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE ONLY WITH SAME TYPE FUSE."
250V T3.15AL
J1000ERZ9A
MHE6794V-0
CN1
CN101
CN2
CN3
CN4
CN6
CN7
CN8
F1
VS1
C1
C2
C31
L1
L2
D1
TH1
RS1
RS2
R32
C32
C49
C8
T1
L4
L5
L6
L27
TP7
Q1
Q7
D9
D10
D11
D15
IC3
A
B
C
1
2
3
4
5

▨ COMPONENT SIDE

▨ PATTERN SIDE

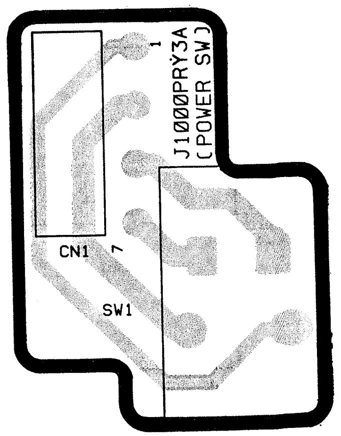
LED BOARD



CN1
MH437F94V-0
J1000PRY2A
(LED)
D1

(COMPONENT SIDE VIEW)

POWER SWITCH BOARD



J1000PRY3A
(POWER SW)
CN1
SW1

(COMPONENT SIDE VIEW)

6

<Index>

POWER BOARD

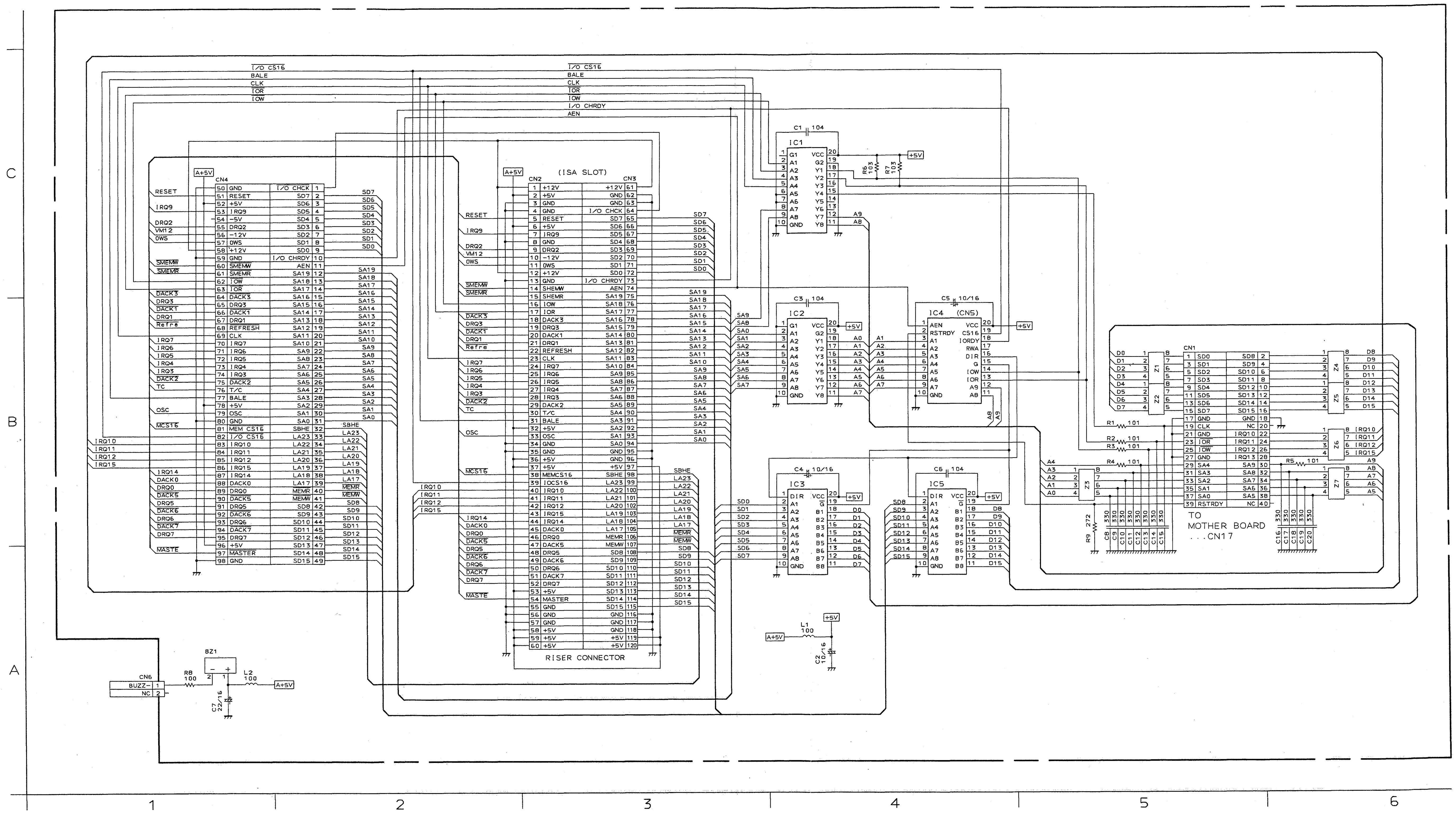
IC1	C2
IC2	C3
IC3	A5
IC4	C3
IC5	C2
IC6	C5
Q1	A2
Q2	C2
Q5	B3
Q6	C3
D1	A1
D2	B2
D4	C2
D5	C2
D6	B2
D7	C2
D8	C3
D9	A3
D10	A4
D11	A3
D12	B3
D13	C3
D14	C3
D15	A4
D16	B2
D17	B2
D18	B2
D19	A2
D20	A2
D21	C3
D22	C3

<Index>

LED BOARD

D1	B6

SCHEMATIC DIAGRAM OF I/F BOARD


C
B
A
1
2
3
4
5
6
(ISA SLOT)
CN2
CN3
CN4
CN1
CN6
RISER CONNECTOR
TO MOTHER BOARD ...CN17
IC1
IC2
IC3
IC4 (CN5)
IC5
C1 104
C3 104
C4 10/16
C5 10/16
C6 104
R6 103
R7 103
L1 100
C2 10/16
BZ1
R8 100
L2 100
C7 22/16
BUZZ−
NC
A+5V
+5V
I/O CS16
BALE
CLK
IOR
IOW
I/O CHRDY
AEN
R1 101
R2 101
R3 101
R4 101
R5 101
R9 272
Z1
Z2
Z3
Z4
Z5
Z6
Z7

<Index>

I/F BOARD

IC1	C4
IC2	B4
IC3	B4
IC4 (CN5)	B4
IC5	B4

Note: The value indicated in the schematic diagram should be read as follows:

□ □ □
- Multiplier (0 - 5)
- 2nd. Significant Digit (0 - 9)
- 1st. Significant Digit (1 - 9)

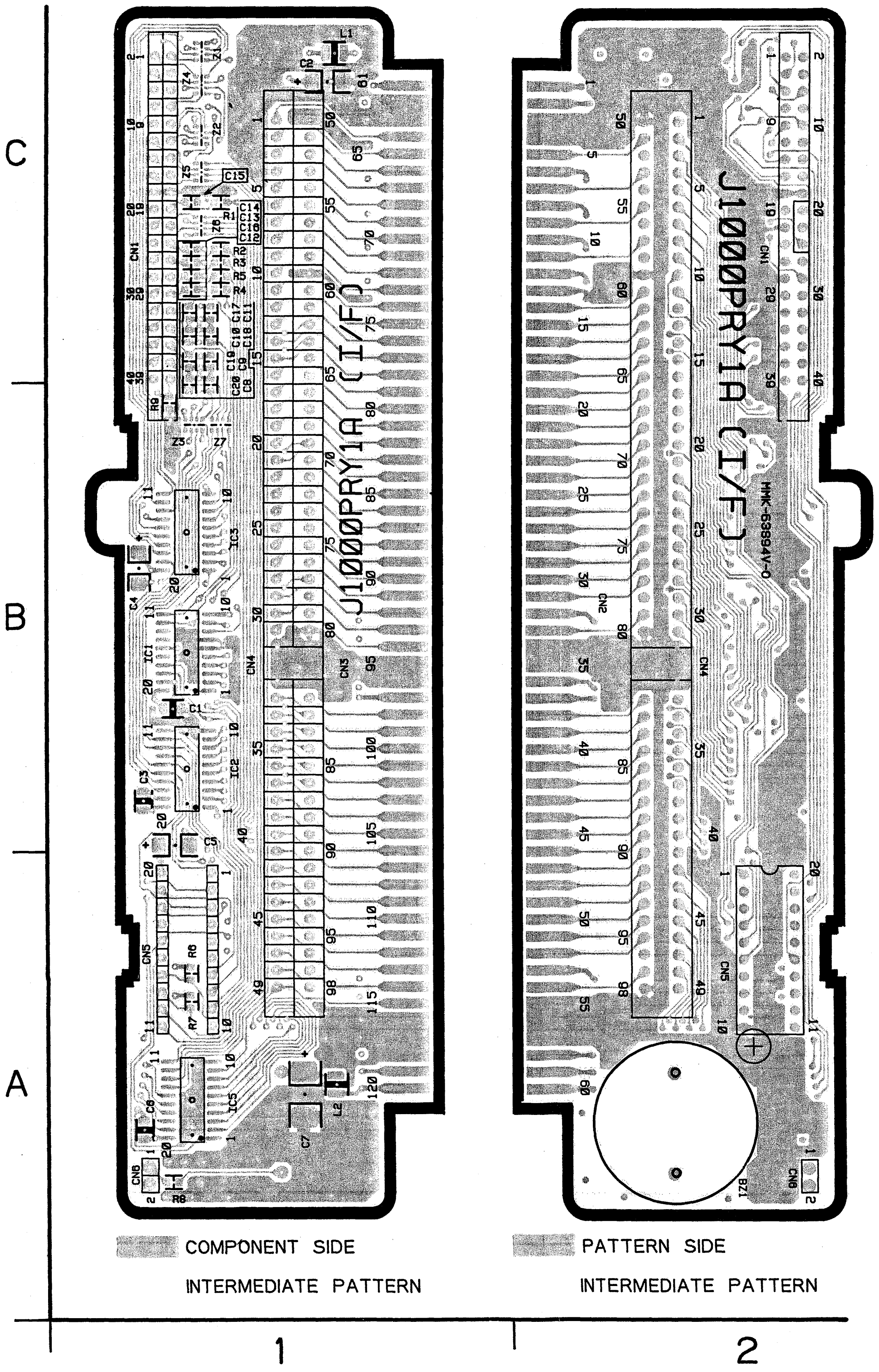
<Example>

For Resistor:
330 → 33 x 10⁰ = 33 Ω
561 → 56 x 10¹ = 560 Ω
123 → 12 x 10³ = 12k Ω
0R00 = 0 Ω

For Capacitor:
820 → 82 x 10⁰ = 82 pF
102 → 10 x 10² = 1000 pF = 0.001 μF
104 → 10 x 10⁴ = 100000 pF = 0.1 μF
The suffix attached to capacitance indicates a type of capacitor.

CONDUCTOR VIEW OF I/F BOARD

(COMPONENT SIDE VIEW) *(PATTERN SIDE VIEW)*


C
B
A
1
2
J1000PRY1A (I/F)
CN1
CN2
CN3
CN4
CN5
CN6
IC1
IC2
IC3
IC5
BZ1
L1
L2
C7
R6
R7
R8
R9
MMK-63994V-0

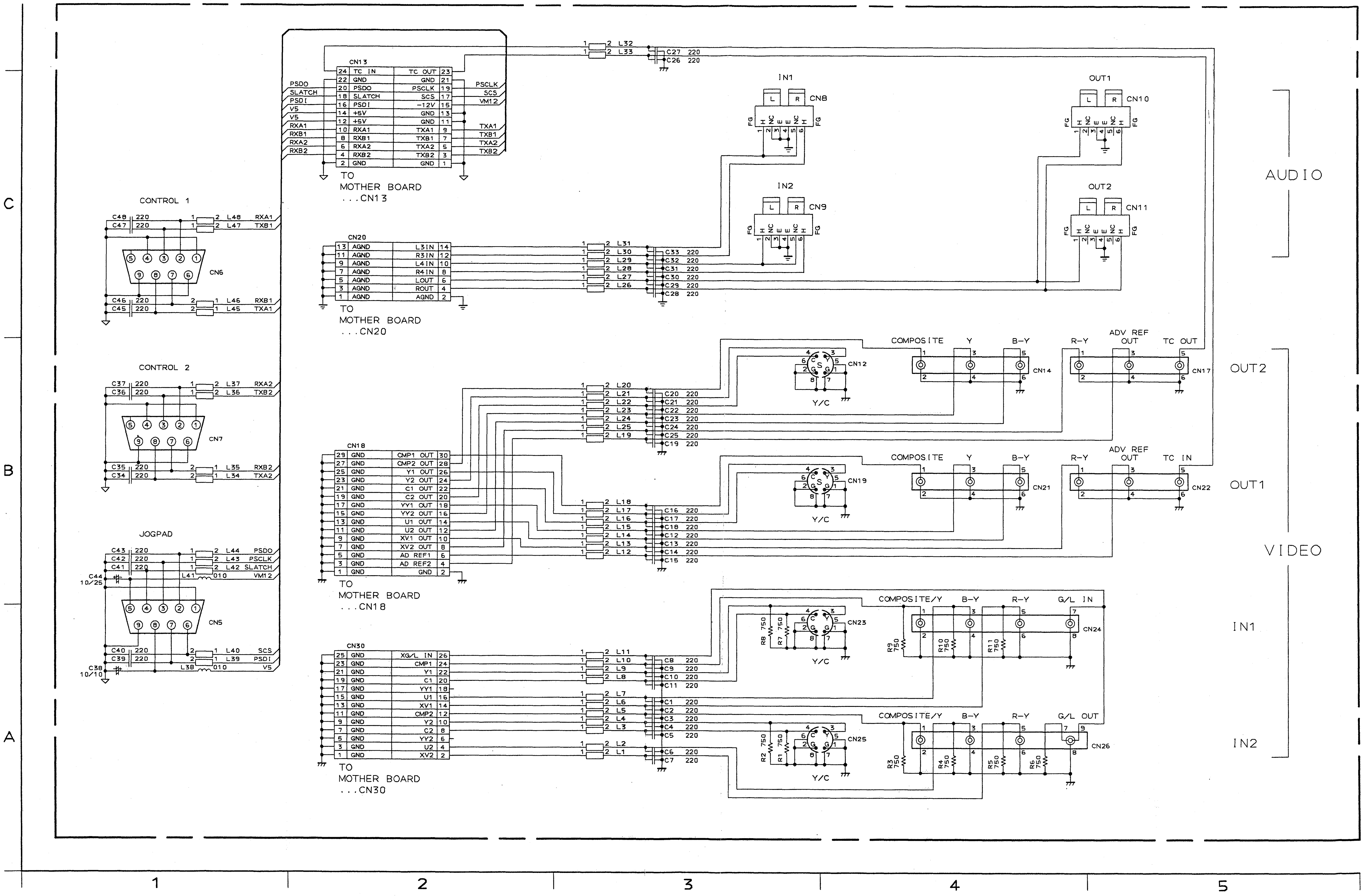
▨ COMPONENT SIDE INTERMEDIATE PATTERN

▨ PATTERN SIDE INTERMEDIATE PATTERN

<Index>

I/F BOARD	
IC1	B1
IC2	B1
IC3	B1
IC4 (CN5)	A2
IC5	A1

SCHEMATIC DIAGRAM OF REAR-1 BOARD


CONTROL 1
CN6
CONTROL 2
CN7
JOGPAD
CN5
CN13
TO MOTHER BOARD ...CN13
CN20
TO MOTHER BOARD ...CN20
CN18
TO MOTHER BOARD ...CN18
CN30
TO MOTHER BOARD ...CN30
IN1
CN8
IN2
CN9
OUT1
CN10
OUT2
CN11
AUDIO
COMPOSITE
Y
B-Y
R-Y
ADV REF OUT
TC OUT
CN12
CN14
CN17
OUT2
TC IN
CN19
CN21
CN22
OUT1
VIDEO
COMPOSITE/Y
G/L IN
CN23
CN24
IN1
G/L OUT
CN25
CN26
IN2
Y/C
C
B
A
1
2
3
4
5

Note: The value indicated in the schematic diagram should be read as follows:

□ □ □
Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Significant Digit (1 - 9)

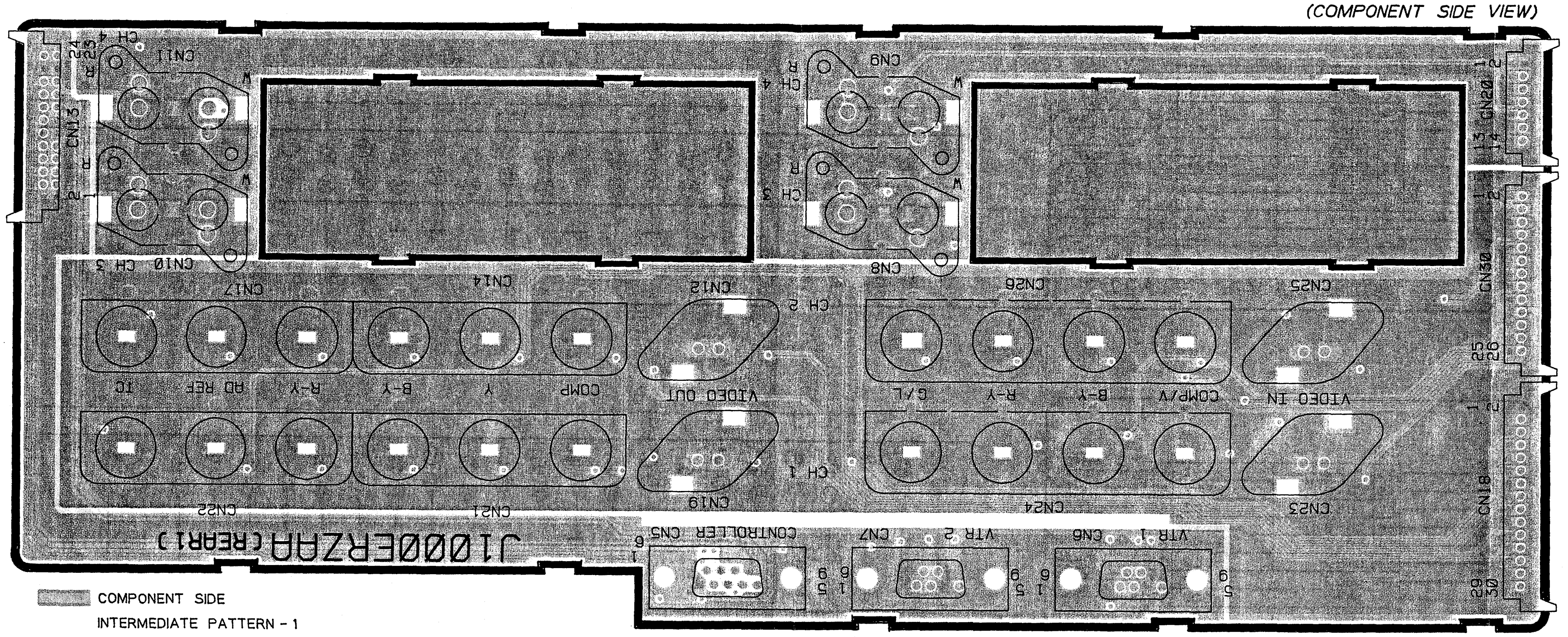
<Example>

For Resistor:
330 → 33 x 10^0 = 33 Ω
561 → 56 x 10^1 = 560 Ω
123 → 12 x 10^3 = 12k Ω
0R00 = 0 Ω

For Capacitor:
820 → 82 x 10^0 = 82 pF
102 → 10 x 10^2 = 1000 pF = 0.001 µF
104 → 10 x 10^4 = 100000 pF = 0.1 µF
The suffix attached to capacitance indicates a type of capacitor.

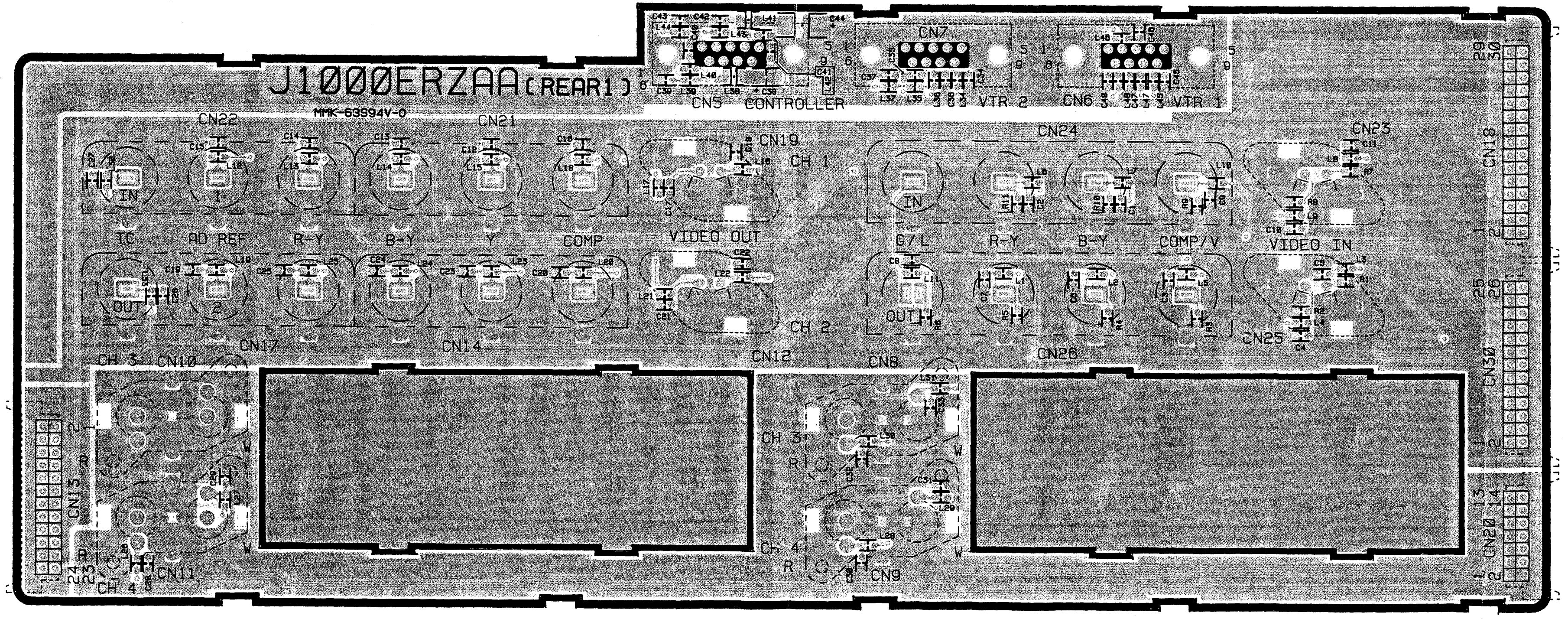
CONDUCTOR VIEW OF REAR-1 BOARD

(COMPONENT SIDE VIEW)



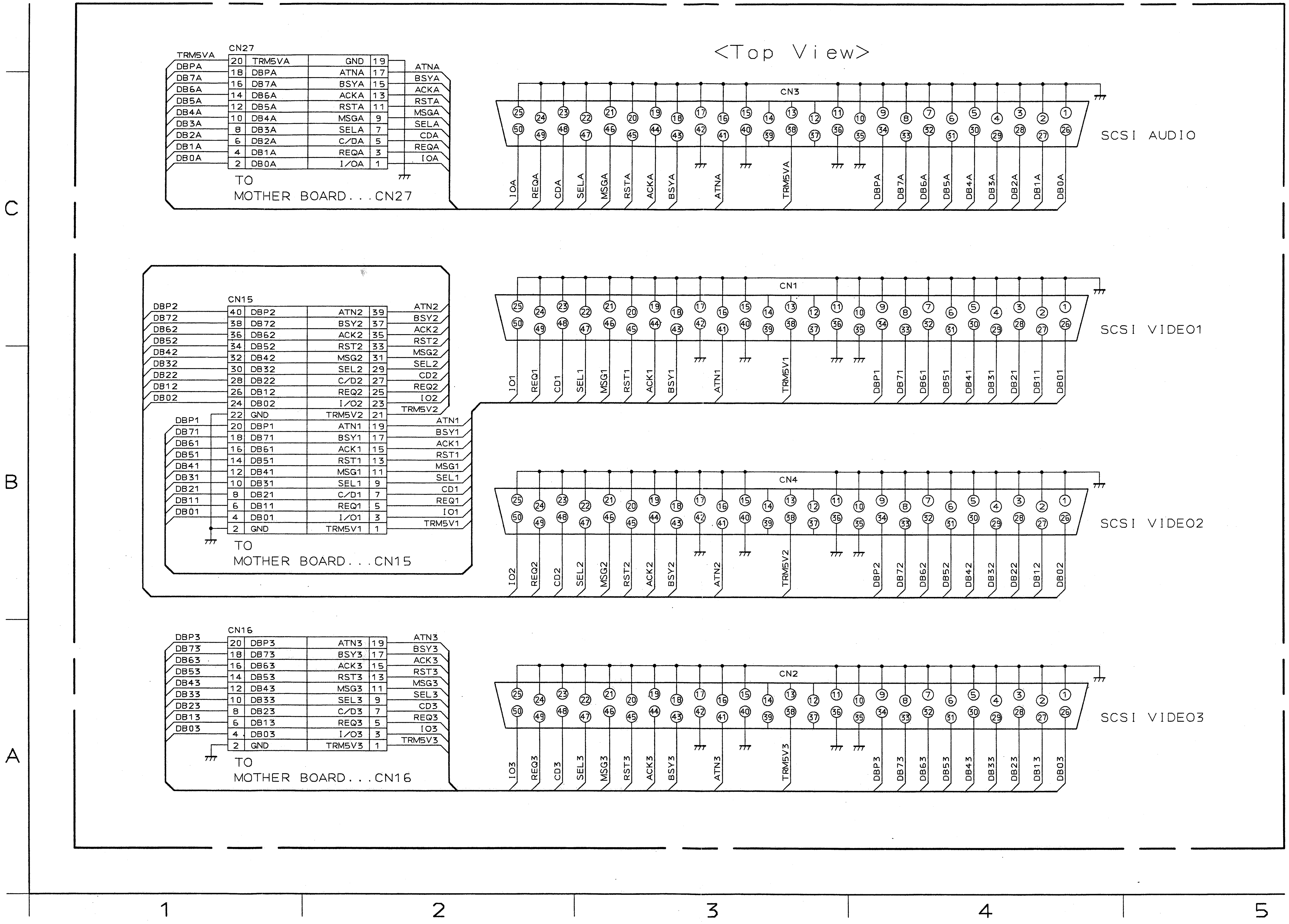
▨ COMPONENT SIDE
INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2

(PATTERN SIDE VIEW)


J1000ERZAA(REAR1)
MMK-63S94V-0
CN5 CONTROLLER
CN7
VTR 2
CN6
VTR 1
CN22
CN21
CN19
CH 1
CN24
CN23
CN18
IN
TC
AD REF
R-Y
B-Y
COMP
VIDEO OUT
G/L
COMP/V
VIDEO IN
OUT
CH 2
CN25
CN17
CN14
CN12
CN8
CN26
CN30
CH 3
CN10
CN13
CH 4
CN11
CN9
CN20
R
W
C
B
A
1
2
3

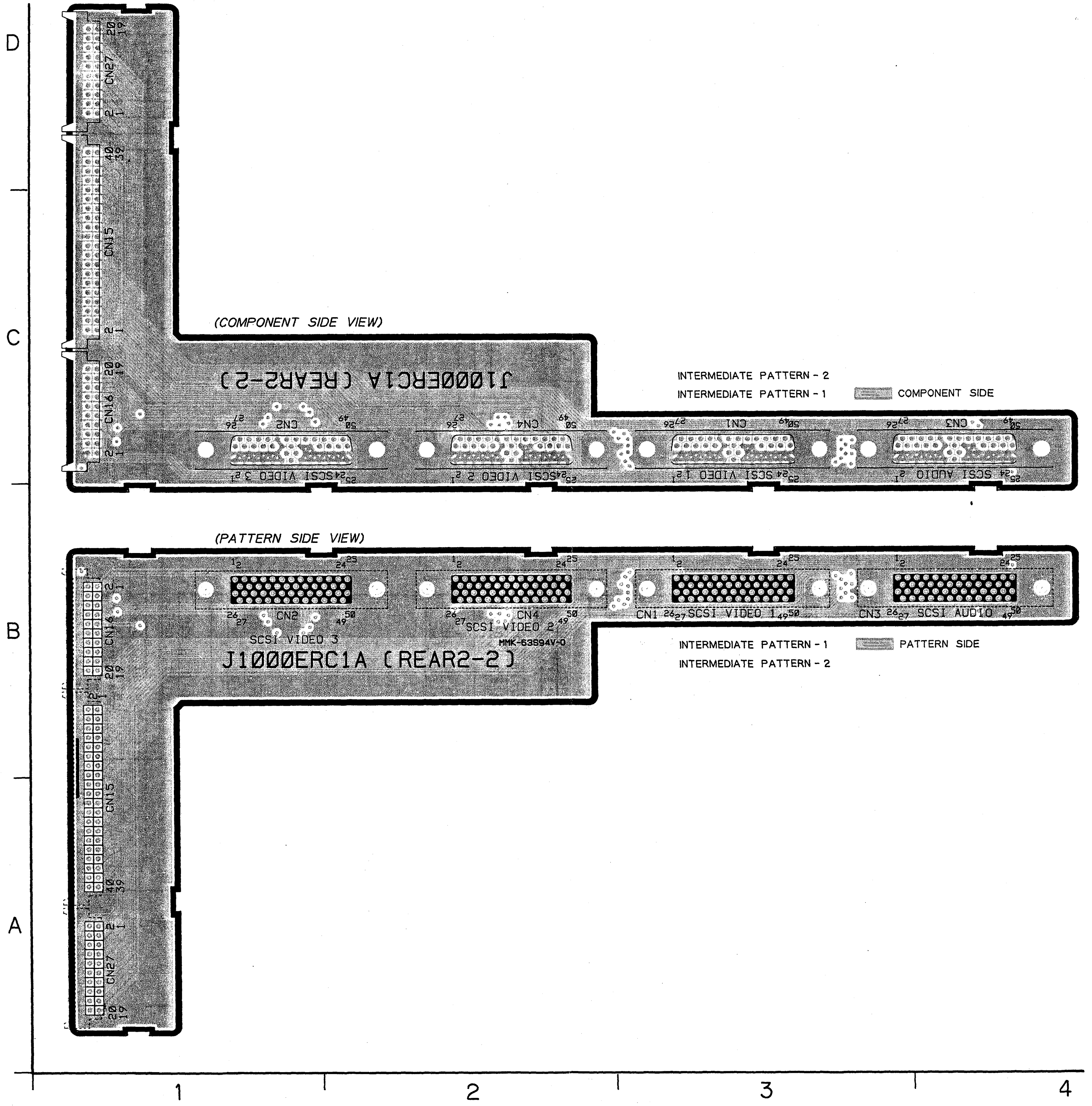
INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2
▨ PATTERN SIDE

SCHEMATIC DIAGRAM OF REAR-2 BOARD

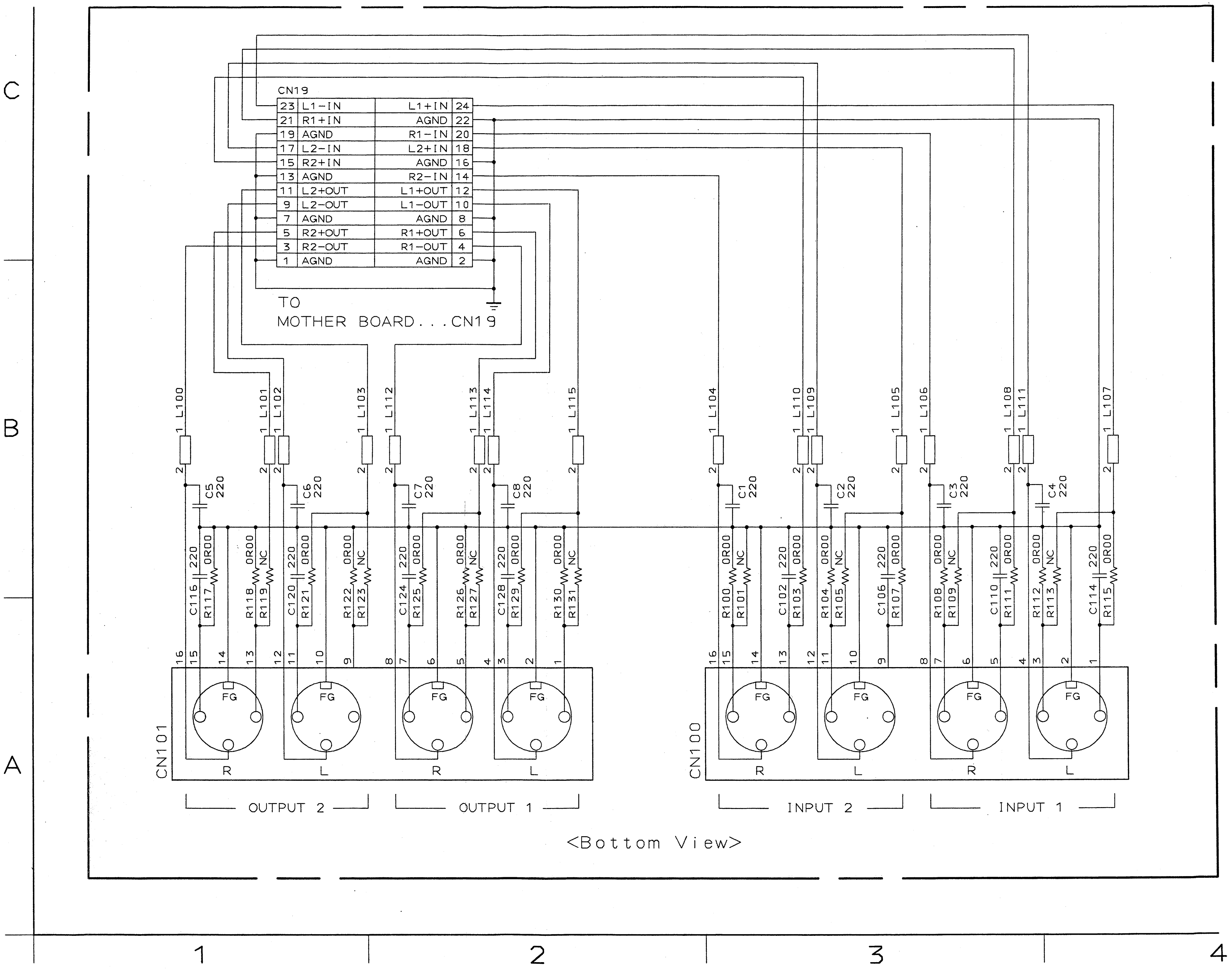


<Top View>
CN27
20 TRMSVA — GND 19
18 DBPA — ATNA 17
16 DB7A — BSYA 15
14 DB6A — ACKA 13
12 DB5A — RSTA 11
10 DB4A — MSGA 9
8 DB3A — SELA 7
6 DB2A — C/DA 5
4 DB1A — REQA 3
2 DB0A — I/OA 1
TO MOTHER BOARD...CN27
CN3
SCSI AUDIO
IOA REQA CDA SELA MSGA RSTA ACKA BSYA ATNA TRM5VA DBPA DB7A DB6A DB5A DB4A DB3A DB2A DB1A DB0A
CN15
40 DBP2 — ATN2 39
38 DB72 — BSY2 37
36 DB62 — ACK2 35
34 DB52 — RST2 33
32 DB42 — MSG2 31
30 DB32 — SEL2 29
28 DB22 — C/D2 27
26 DB12 — REQ2 25
24 DB02 — I/O2 23
22 GND — TRM5V2 21
20 DBP1 — ATN1 19
18 DB71 — BSY1 17
16 DB61 — ACK1 15
14 DB51 — RST1 13
12 DB41 — MSG1 11
10 DB31 — SEL1 9
8 DB21 — C/D1 7
6 DB11 — REQ1 5
4 DB01 — I/O1 3
2 GND — TRM5V1 1
TO MOTHER BOARD...CN15
CN1
SCSI VIDEO1
IO1 REQ1 CD1 SEL1 MSG1 RST1 ACK1 BSY1 ATN1 TRM5V1 DBP1 DB71 DB61 DB51 DB41 DB31 DB21 DB11 DB01
CN4
SCSI VIDEO2
IO2 REQ2 CD2 SEL2 MSG2 RST2 ACK2 BSY2 ATN2 TRM5V2 DBP2 DB72 DB62 DB52 DB42 DB32 DB22 DB12 DB02
CN16
20 DBP3 — ATN3 19
18 DB73 — BSY3 17
16 DB63 — ACK3 15
14 DB53 — RST3 13
12 DB43 — MSG3 11
10 DB33 — SEL3 9
8 DB23 — C/D3 7
6 DB13 — REQ3 5
4 DB03 — I/O3 3
2 GND — TRM5V3 1
TO MOTHER BOARD...CN16
CN2
SCSI VIDEO3
IO3 REQ3 CD3 SEL3 MSG3 RST3 ACK3 BSY3 ATN3 TRM5V3 DBP3 DB73 DB63 DB53 DB43 DB33 DB23 DB13 DB03
C
B
A
1
2
3
4
5

CONDUCTOR VIEW OF REAR-2 BOARD


D
C
B
A
1
2
3
4
(COMPONENT SIDE VIEW)
J1000ERC1A (REAR2-2)
CN27
CN15
CN16
CN2
CN4
CN1
CN3
SCSI VIDEO 3
SCSI VIDEO 2
SCSI VIDEO 1
SCSI AUDIO
INTERMEDIATE PATTERN - 2
INTERMEDIATE PATTERN - 1
COMPONENT SIDE
(PATTERN SIDE VIEW)
J1000ERC1A (REAR2-2)
MMK-63594V-0
INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2
PATTERN SIDE

SCHEMATIC DIAGRAM OF REAR-3 BOARD


C
B
A
1
2
3
4
CN19
23 L1-IN
21 R1+IN
19 AGND
17 L2-IN
15 R2+IN
13 AGND
11 L2+OUT
9 L2-OUT
7 AGND
5 R2+OUT
3 R2-OUT
1 AGND
L1+IN 24
AGND 22
R1-IN 20
L2+IN 18
AGND 16
R2-IN 14
L1+OUT 12
L1-OUT 10
AGND 8
R1+OUT 6
R1-OUT 4
AGND 2
TO
MOTHER BOARD . . . CN19
L100
L101
L102
L103
L112
L113
L114
L115
L104
L110
L109
L105
L106
L108
L111
L107
C5 220
C6 220
C7 220
C8 220
C1 220
C2 220
C3 220
C4 220
C116 220
R117 0R00
R118 0R00
R119 NC
C120 220
R121 0R00
R122 0R00
R123 NC
C124 220
R125 0R00
R126 0R00
R127 NC
C128 220
R129 0R00
R130 0R00
R131 NC
R100 0R00
R101 NC
C102 220
R103 0R00
R104 0R00
R105 NC
C106 220
R107 0R00
R108 0R00
R109 NC
C110 220
R111 0R00
R112 0R00
R113 NC
C114 220
R115 0R00
CN101
CN100
FG
R
L
OUTPUT 2
OUTPUT 1
INPUT 2
INPUT 1
<Bottom View>

Note: **The value indicated in the schematic diagram should be read as follows**

☐ ☐ ☐
Multiplier (0 - 5)
2nd. Significant Digit (0 - 9)
1st. Siginificant Digit (1 - 9)

<Example>

For Resistor:
330 → 33 x 10^0 = 33 Ω
561 → 56 x 10^1 = 560 Ω
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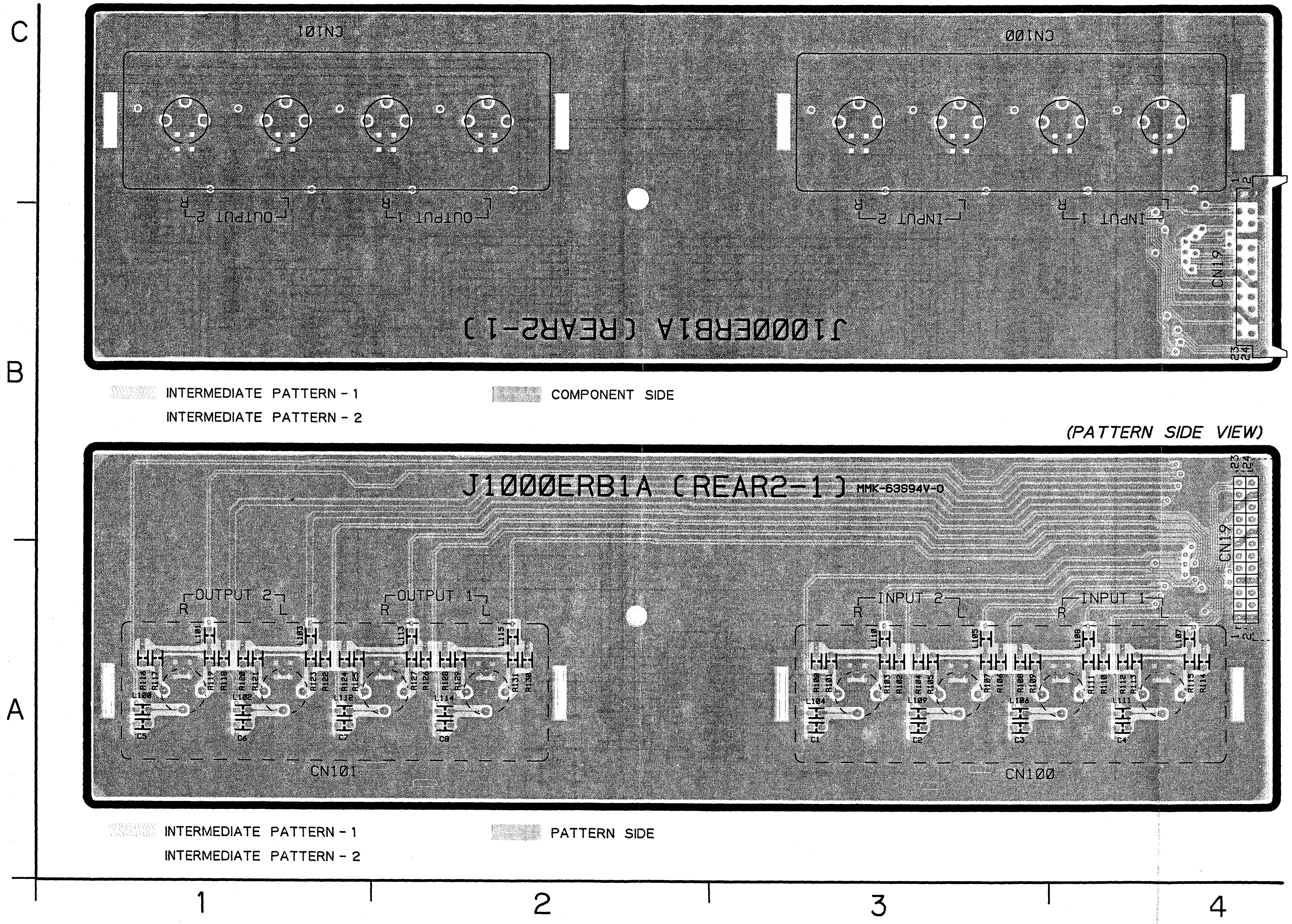
0R00 = 0 Ω

For Capacitor:
820 → 82 x 10^0 = 82 pF
102 → 10 x 10^2 = 1000 pF = 0.001 μF
104 → 10 x 10^4 = 100000 pF = 0.1 μF
The suffix attached to capacitance indicates a type of capacitor.

CONDUCTOR VIEW OF REAR-3 BOARD

(COMPONENT SIDE VIEW)


C
B
A
1
2
3
4
CN101
CN100
OUTPUT 2
OUTPUT 1
INPUT 2
INPUT 1
R
L
CN19
1
2
23
24
J1000ERB1A (REAR2-1)
J1000ERB1A (REAR2-1) MMK-63594V-0
CN101
CN100
C1
C2
C3
C4
C5
C6
C7
C8

▨ INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2

▨ COMPONENT SIDE

(PATTERN SIDE VIEW)

▨ INTERMEDIATE PATTERN - 1
INTERMEDIATE PATTERN - 2

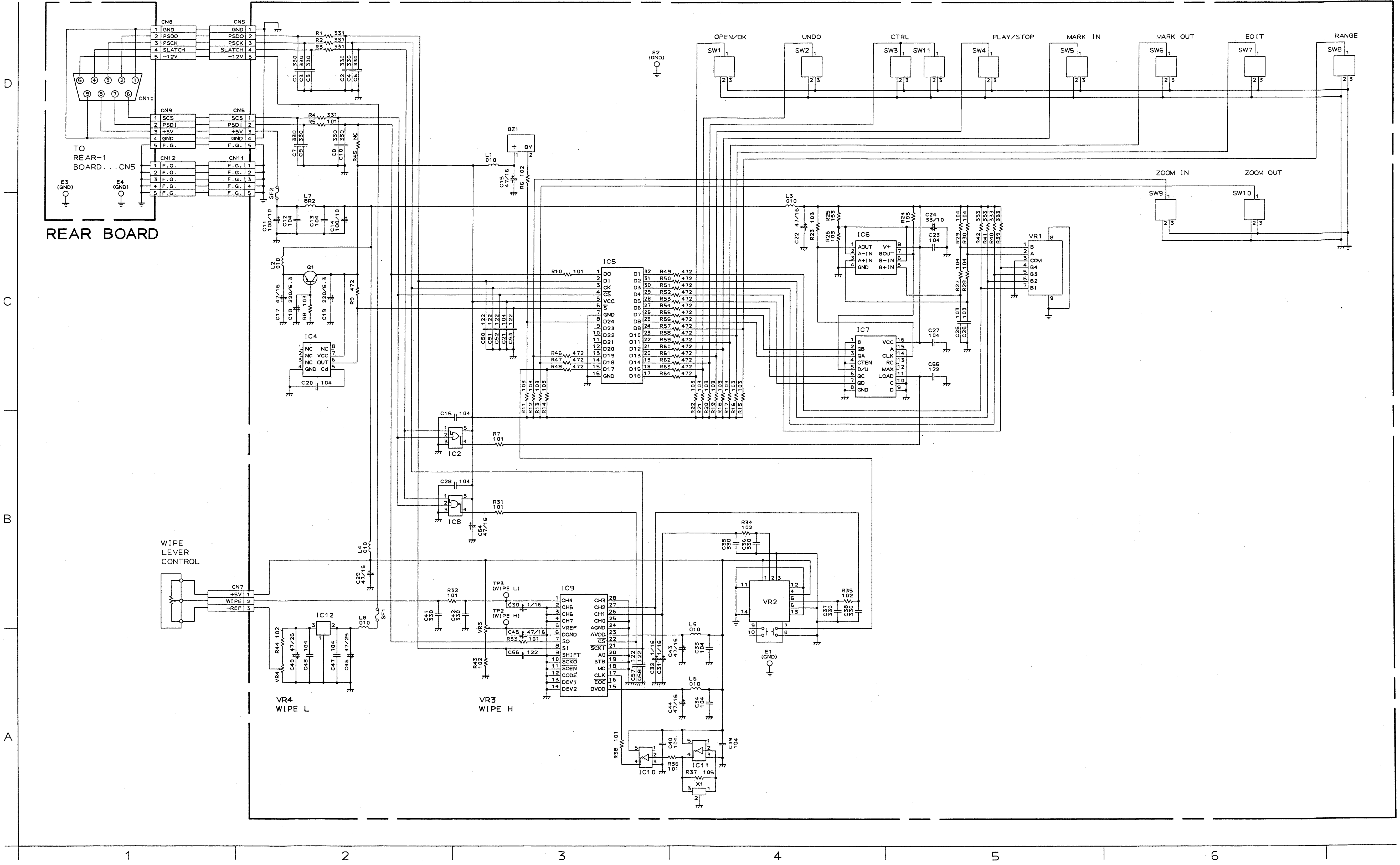
▨ PATTERN SIDE

SCHEMATIC DIAGRAM OF MAIN BOARD (JOG PAD)

<Index>

MAIN BOARD

IC2	B3
IC4	C2
IC5	C3
IC6	C4
IC7	C4
IC8	B3
IC9	B3
IC10	A3
IC11	A4
IC12	B2
Q1	C2


REAR BOARD
TO REAR-1 BOARD . . . CN5
CN8
CN5
CN9
CN6
CN10
CN12
CN11
GND
PSDO
PSCK
SLATCH
-12V
SCS
PSDI
+5V
F.G.
E3 (GND)
E4 (GND)
E2 (GND)
E1 (GND)
BZ1
OPEN/OK
UNDO
CTRL
PLAY/STOP
MARK IN
MARK OUT
EDIT
RANGE
ZOOM IN
ZOOM OUT
SW1
SW2
SW3
SW11
SW4
SW5
SW6
SW7
SW8
SW9
SW10
IC5
IC6
IC7
IC4
IC2
IC8
IC9
IC10
IC11
IC12
Q1
VR1
VR2
VR3 WIPE H
VR4 WIPE L
WIPE LEVER CONTROL
CN7
TP3 (WIPE L)
TP2 (WIPE H)
X1
D
C
B
A
1
2
3
4
5
6

Note: **The value indicated in the schematic diagram should be read as follows:**

□ □ □
- Multiplier (0 - 5)
- 2nd. Significant Digit (0 - 9)
- 1st. Siginificant Digit (1 - 9)

<Example>

For Resistor:

330 → 33 x 10^0 = 33 Ω
561 → 56 x 10^1 = 560 Ω
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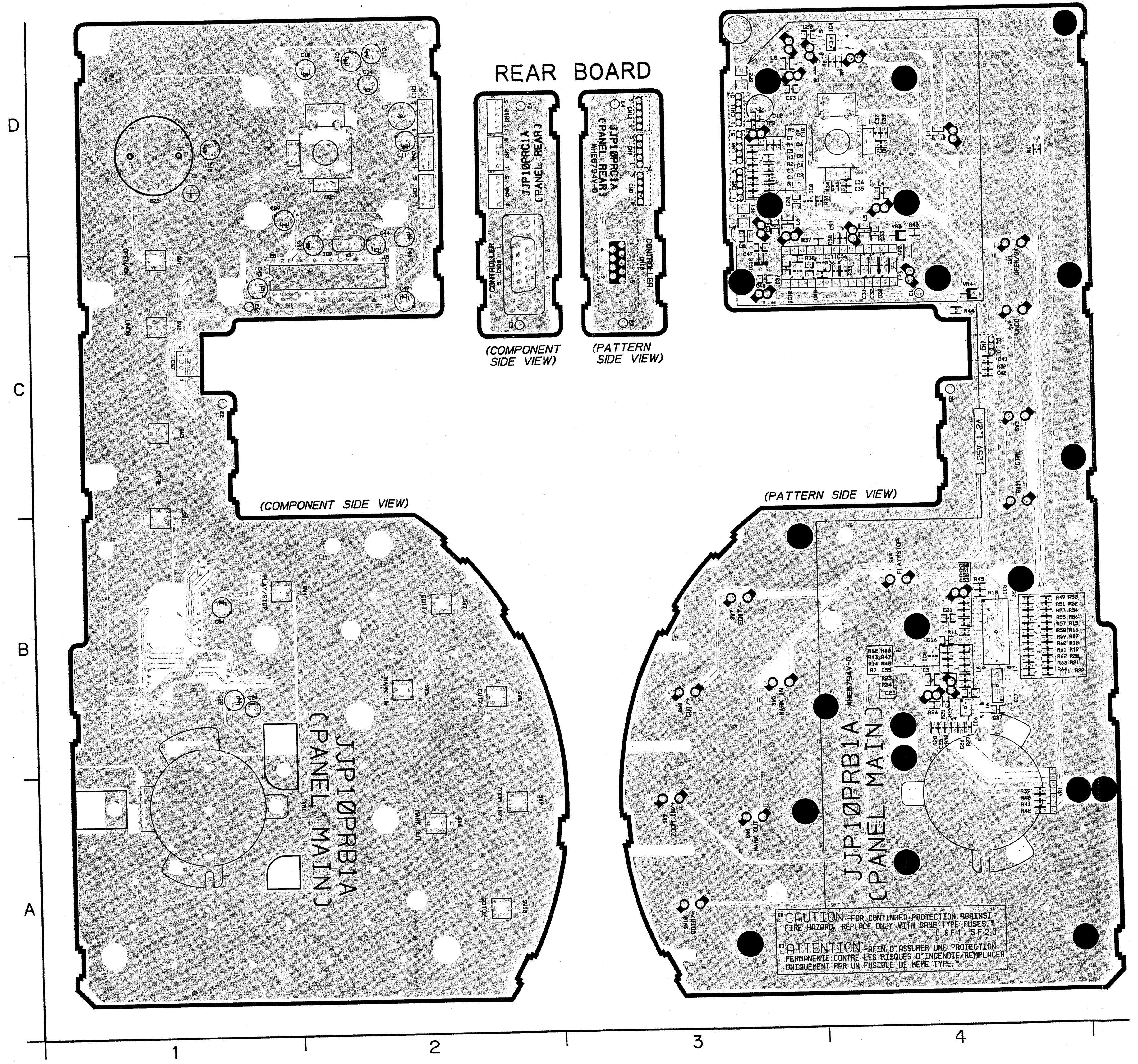
820 → 82 x 10^0 = 82 pF
102 → 10 x 10^2 = 1000 pF = 0.001 µF
104 → 10 x 10^4 = 100000 pF = 0.1 µF

The suffix attached to capacitance indicates a type of capacitor.

CONDUCTOR VIEW OF MAIN BOARD (JOG PAD)


REAR BOARD
JJP10PRC1A (PANEL REAR)
JJP10PRC1A (PANEL REAR) MHE6794V-0
CONTROLLER
(COMPONENT SIDE VIEW)
(PATTERN SIDE VIEW)
JJP10PRB1A (PANEL MAIN)
MHE6794V-0
(COMPONENT SIDE VIEW)
(PATTERN SIDE VIEW)
OPEN/OK
UNDO
CTRL
PLAY/STOP
EDIT/-
MARK IN
CUT/+
MARK OUT
ZOOM/+
GOTO/-
125V 1.2A
D
C
B
A
1
2
3
4

CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES." (SF1, SF2)

ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE."

<Index>

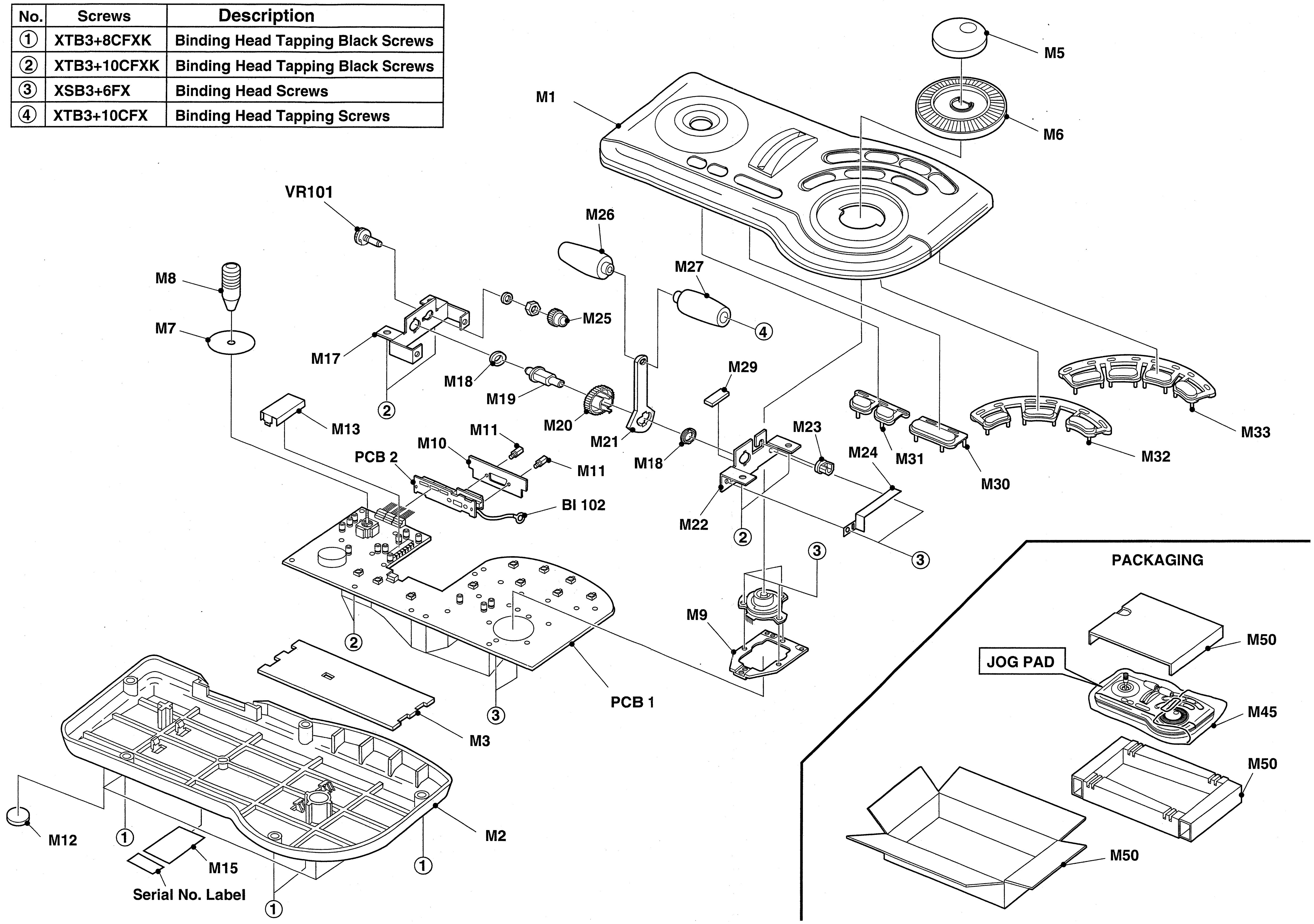
MAIN BOARD

IC2	B4
IC4	D4
IC5	B4
IC6	B4
IC7	B4
IC8	D4
IC9	C2
IC10	C3
IC11	C4
IC12	C3
Q1	D4

EXPLODED VIEW OF JOG PAD

○ Numbers show Screws, Washers, Nuts and etc.

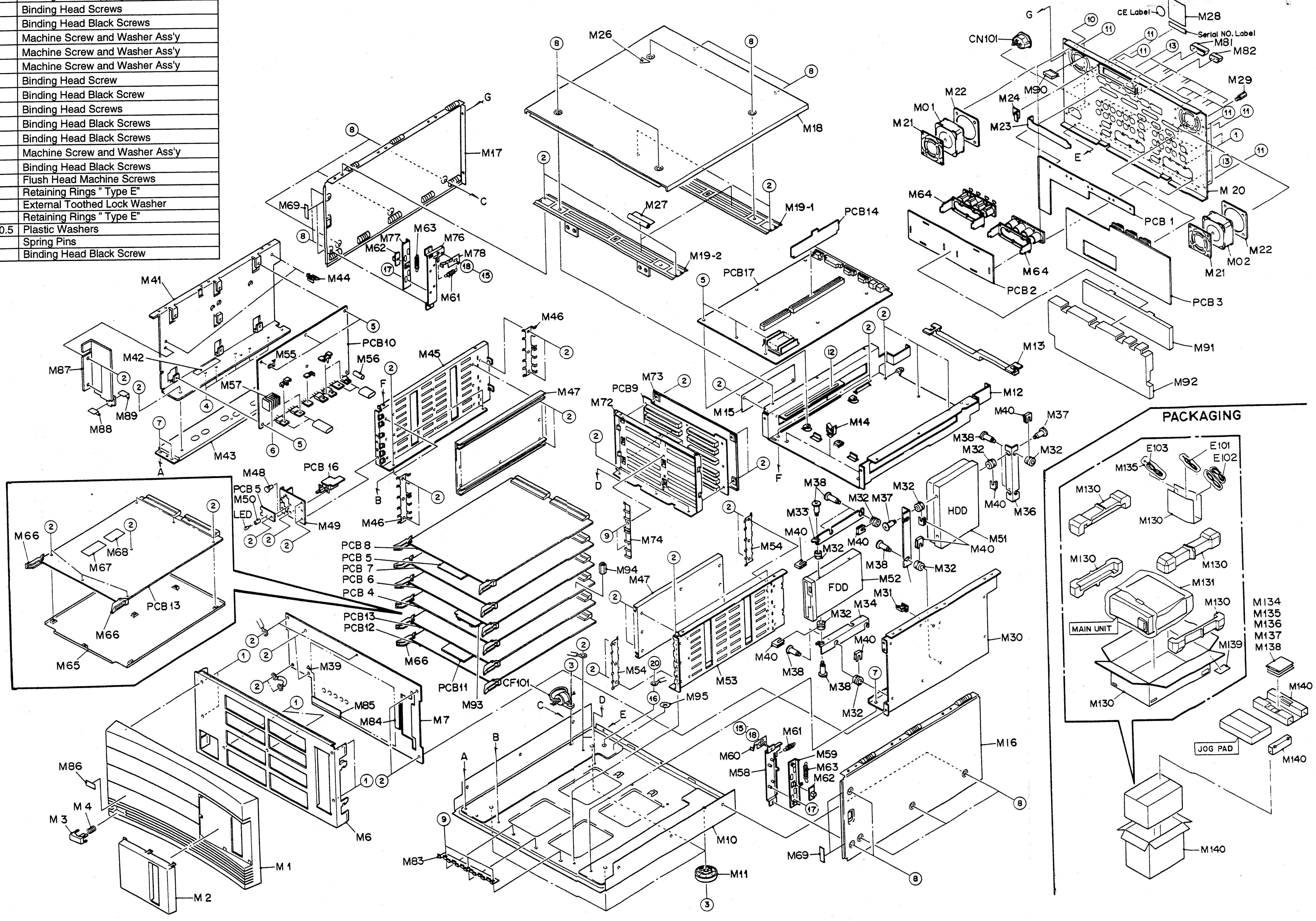
No.	Screws	Description
①	XTB3+8CFXK	Binding Head Tapping Black Screws
②	XTB3+10CFXK	Binding Head Tapping Black Screws
③	XSB3+6FX	Binding Head Screws
④	XTB3+10CFX	Binding Head Tapping Screws


M5
M1
M6
VR101
M26
M8
M27
M25
M7
④
M17
M18
M29
M19
②
M20
M13
M11
M21
M23
M33
M10
M18
M24
M31
M32
PCB 2
M11
M30
BI 102
M22
②
③
③
PACKAGING
M9
②
M50
JOG PAD
PCB 1
M45
③
M3
M50
M12
①
M2
M15
M50
①
Serial No. Label
①

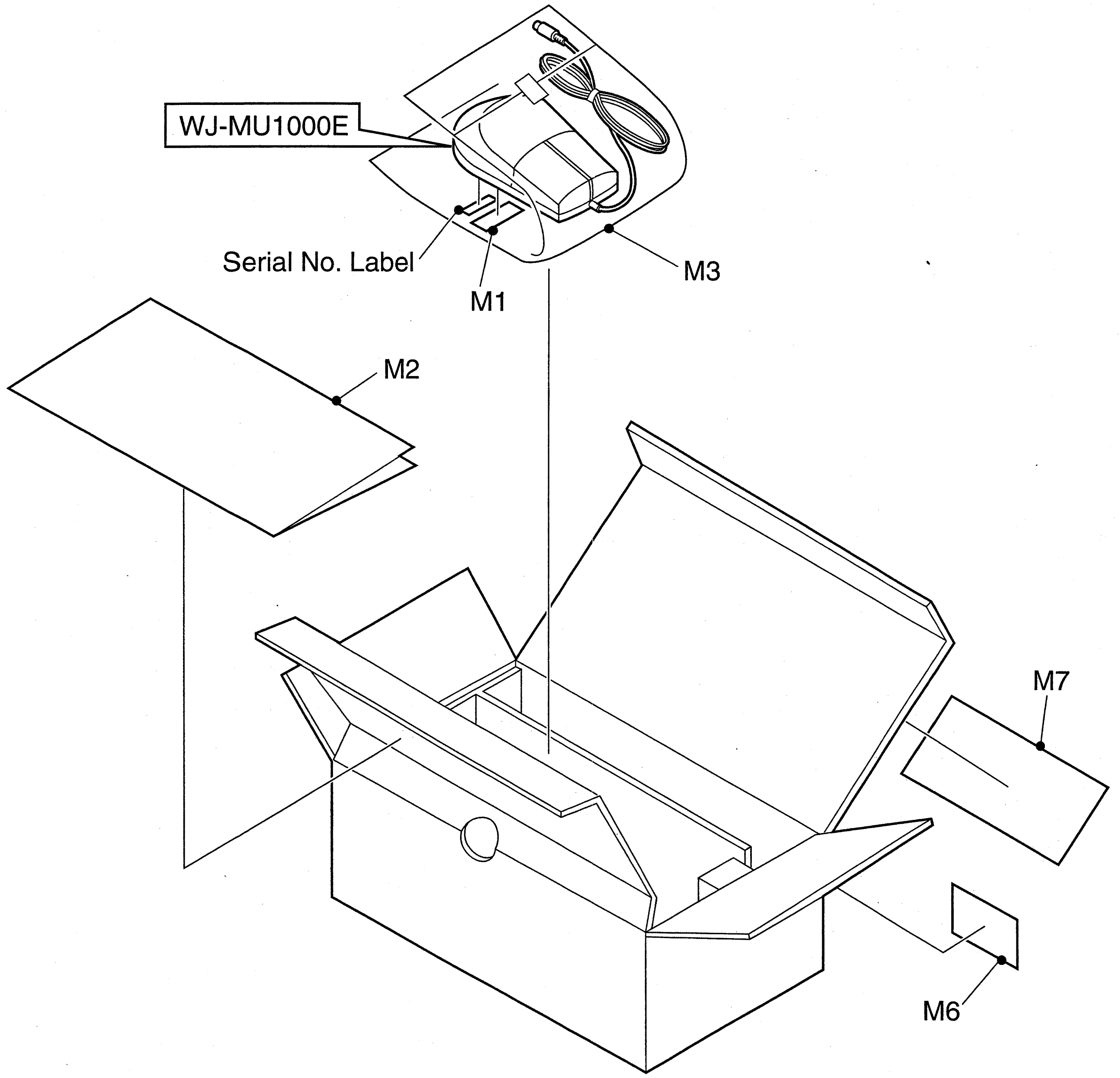
○ Numbers show Screws, Washers, Nuts and etc.

No.	Screws	Description
①	XTB3+10CFXK	Binding Head Tapping Black Screws
②	XSB3+6FX	Binding Head Screws
③	XSB4+10FXK	Binding Head Black Screws
④	XYN3+F16FX	Machine Screw and Washer Ass'y
⑤	XYN3+F6FX	Machine Screw and Washer Ass'y
⑥	XYN3+F10FX	Machine Screw and Washer Ass'y
⑦	XSB3+8FX	Binding Head Screw
⑧	XSB4+6FXK	Binding Head Black Screw
⑨	XSB3+4FX	Binding Head Screws
⑩	XSB4+35FXK	Binding Head Black Screws
⑪	XSB3+6FXK	Binding Head Black Screws
⑫	XYN3+F12FX	Machine Screw and Washer Ass'y
⑬	XSB26+8FXK	Binding Head Black Screws
⑭	XSS3+8FX	Flush Head Machine Screws
⑮	XUC2FX	Retaining Rings " Type E"
⑯	XWC4BFX	External Toothed Lock Washer
⑰	XUC25FX	Retaining Rings " Type E"
⑱	P.S.W3.1X5.4X0.5	Plastic Washers
⑲	XPL4B8W	Spring Pins
⑳	XSB4+6FX	Binding Head Black Screw

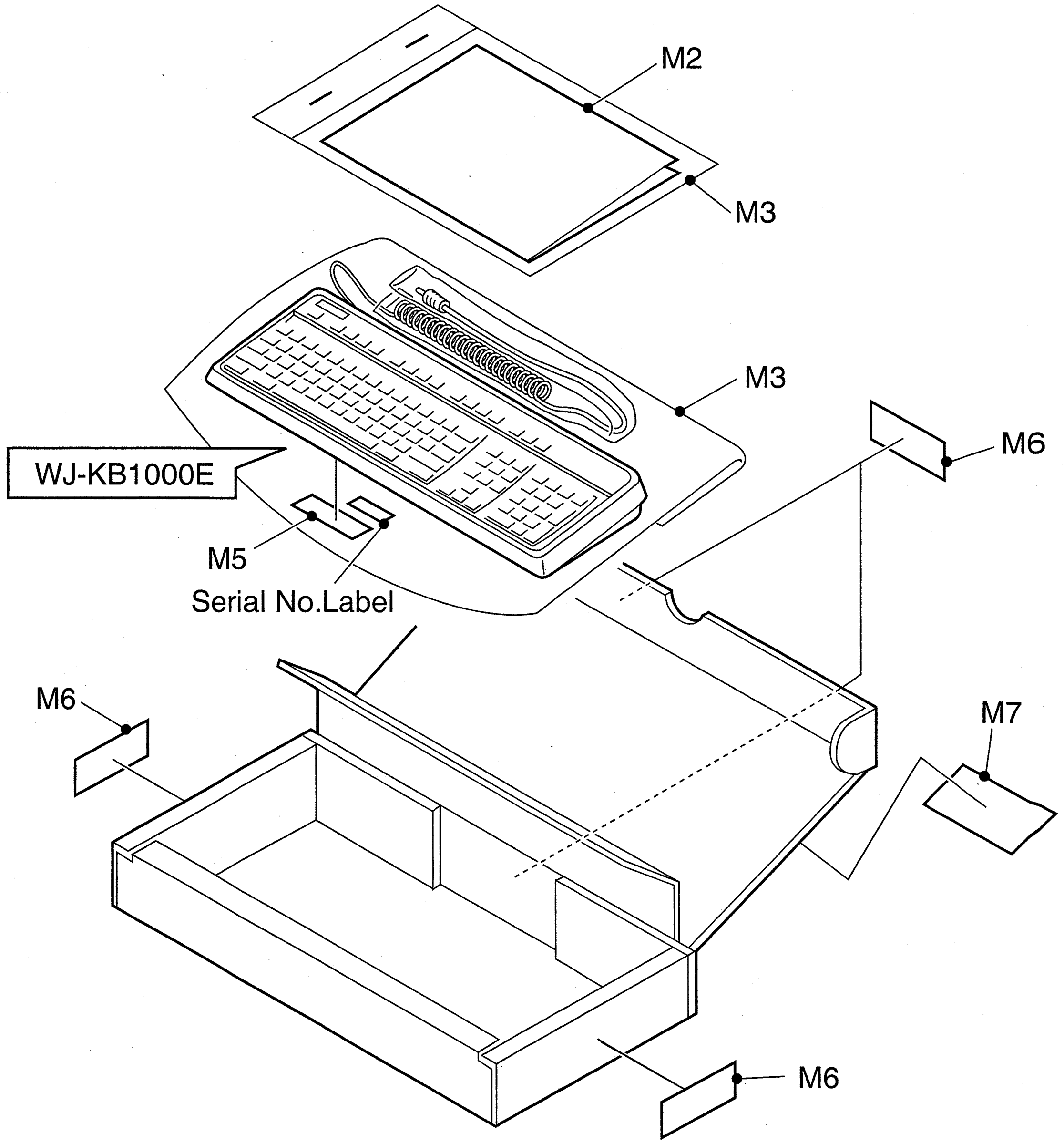
EXPLODED VIEW


M26
M18
M17
M27
M19-1
M19-2
PCB14
PCB17
CN101
CE Label
M28
Serial NO. Label
M81
M82
M29
M22
M01
M21
M24
M90
M23
E
M 20
M64
PCB 1
PCB2
PCB3
M02
M91
M92
M13
M12
M41
M44
M69
M77
M62
M63
M76
M78
M61
PCB10
M55
M56
M57
M42
M87
M88
M89
M43
A
B
C
D
F
G
M45
M46
M47
PCB9
M72
M73
M15
M14
M40
M37
M38
M32
M36
HDD
M51
M33
M52
FDD
M31
M34
M48
PCB 16
PCB 5
M50
LED
M49
M66
M68
M67
PCB 13
M65
PCB 8
PCB 5
PCB 7
PCB 6
PCB 4
PCB13
PCB12
PCB11
M74
M94
M54
M53
M30
M39
M85
M84
M7
M6
M86
M 4
M 3
M 1
M 2
CF101
M93
M95
M60
M58
M59
M61
M63
M62
M16
M69
M10
M11
M83
PACKAGING
E103
E101
E102
M135
M130
M131
MAIN UNIT
M139
M134
M135
M136
M137
M138
M140
JOG PAD

EXPLODED VIEW OF WJ-MU1000E


WJ-MU1000E
Serial No. Label
M1
M3
M2
M7
M6

EXPLODED VIEW OF WJ-KB1000E


M2
M3
M3
M6
WJ-KB1000E
M5
Serial No.Label
M6
M7
M6

REPLACEMENT PARTS LIST

Important Notice

1. Components identified by " ⚠ " mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
2. RTL : Retention Time Limited.

REF.NO.	PART NO.	DESCRIPTION
MAIN UNIT		
MISCELLANEOUS		
MO1,2 ⚠	YWFBA06A12H	DC Motor
CF1	YWTRCN16816	Filter
E1 ⚠	YW840522	Fuse Insulator Cover
CN101 ⚠	YWACP03CS05	AC Inlet Socket
BI 1 ⚠	YWMX1000A1	Wire Assy for AC Inlet Socket CN101
BI 2	YWMX1000A4	Wire Assy for Rear-1 Board CN18 and Mother Board CN18
BI 3	YWMX1000A5	Wire Assy for Rear-1 Board CN30 and Mother Board CN30
BI 4	YWMX1000A6	Wire Assy for Rear-1 Board CN20 and Mother Board CN20
BI 5	YWMX1000A7	Wire Assy for Rear-2 Board CN16 and Mother Board CN16
BI 6	YWMX1000A8	Wire Assy for Rear-2 Board CN15 and Mother Board CN15
BI 7	YWMX1000A9	Wire Assy for Rear-1 Board CN13 and Mother Board CN13
BI 8	YWMX1000A10	Wire Assy for Rear-2 Board CN27 and Mother Board CN27
BI 9	YWMX1000A11	Wire Assy for Rear-3 Board CN19 and Mother Board CN19
BI 10	YWMX1000A12	Wire Assy for ISA Board CN1 and Mother Board CN17
BI 11	YWMX1000A14	Wire Assy for CPU Board J7
BI 12	YWMX1000A17	Wire Assy for LED Board CN1 and Power Board CN8
BI 13	YWMX1000A18	Wire Assy for Power Board CN4 and Fan
BI 14	YWMX1000A19	Wire Assy for FDD and Power Board CN6
BI 15	YWMX1000B20	Wire Assy for HDD and Power Board CN7
BI 16	YWMX1000A21	Wire Assy for Power Board CN101 and Power Switch
BI 17	YWMX1000B33	Wire Assy for CPU Board J16 I/F Board CN6
BI 18	YWMX1000B15	Wire Assy for FDD and CPU Board J6
BI 19	YWMX1000B16	Wire Assy for CPU Board and Power Board CN3

REF.NO.	PART NO.	DESCRIPTION
M1	YWV5WA1676A1	Front Panel
M2	YWV5WA1677A1	Front Sub Panel
M3	YWV5RA0432A3	Knob
M4	YWV4JA0505A4	Spring
M5	YWV1SA0109A4	Glass
M6	YWV2KA0925A1	Front Chassis
M7	YWV9AA2036AN	Front Panel Assy
M8	YWV7SA2115A4	GEN Lock Control Label
M10	YWV9AA2032AN	Bottom Chassis Assy
M11	YWFF10050L	Foot
M12	YWV2SA2786A2	Mounting Angle for CPU Board
M13	YWV2EA0235A3	Guide
M14	YWWS3NS	Spacer
M15	YWV2PA0646A4	Insulator for Panel
M16	YWV9AA2033AN	Right Side Cover Assy
M17	YWV9AB2033AN	Left Side Cover Assy
M18	YWV9AA2031AN	Upper Cover Assy
M19-1	YWV3BA0129A3	Supporting Angle A
M19-2	YWV3BB0129A3	Supporting Angle B
M20	YWV5WB1674A1	Rear Panel
M21	YWV2SA2796A4	Mounting Angle
M22	YWV2NA0400A4	Spacer
M23	YWV5WA1675A4	Blank Panel
M24	YWV2SA2787A4	Mounting Angle
M25	UAMS-05SV0	Cord Clamp
M26	YFV7MA0103A4	Safety Shock Label
M27	YWCSM309547A	Shield Parts
M28	YWV7QA3556A4	Main Label for WJ-MX1000/B
	YWV7QA3557A4	Main Label for WJ-MX1000/G
M29	YWSFS26SB1WM	Special Screw
M30	YWV2SA2779A1	Mounting Angle
M31	YWUAMS09V0	Cord Clamp
M32	YWV2FA0698A4	Cushion
M33	YWV2SA2780A3	Mounting Angle
M34	YWV2SB2780A3	Mounting Angle
M35	YWV2SA2782A3	Mounting Angle
M36	YWV2SB2782A3	Mounting Angle
M37	YWV1EA0292A4	Special Screw
M38	YWV1EA0293A4	Special Screw
M39	YFV7MB0103A4	Safety Label
M40	YWV4JA1012A4	Spring
M44	YWWS2NSL	Spacer
M45	YWV2SB2784A1	Mounting Angle
M46	YWV2HB1204A3	Shield Parts

REF.NO.	PART NO.	DESCRIPTION
M47	YWV2EA0234A2	Guide
M48	YWV5RA0448A4	Knob
M49	YWV2SA2788A3	Mounting Angle for Power Switch
M51	YWV0EA1018AN	H D D
M52	YWJU256A6P	F D D
M53	YWV2SA2784A1	Mounting Angle
M54	YWV2HA1204A3	Shield Parts
M58	YWV2SA2794A3	Hook Angle A for Right Side
M59	YWV2SA2795A3	Hook Angle B for Right Side
M60	YWV2SA2805A4	Hook Stopper Plate for Right Side
M61	YWV4JA0506A4	Hook Spring A
M62	YWV4JA0196A4	Hook Button
M63	YWV4JA0502A4	Hook Spring B
M69	YWV2NA1012A4	Spacer
M72	YWV2SA2790A2	Mounting Angle
M73	YWV2HA1213A2	Shield Parts
M74	YWV2HA1217A3	Shield Parts
M76	YWV2SB2794A3	Hook Angle A for Left Side
M77	YWV2SB2795A3	Hook Angle B for Left Side
M78	YWV2SB2805A4	Hook Stopper Plate for Left Side
M81	YWP25P	Cover
M82	YWR9P	Cover
M83	YWV4JA1015A3	Spring
M84	YWCSM309547B	Shield Parts
M85	YWCSM309547C	Shield Parts
M86	YWV7SA3046A3	Label
M90	YWV4JA1017A4	Spring
M92	YWV2HA2007A2	Shield Parts
M95	YWA7SA0689A4	Earth Label

REAR-2 BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB1 (RTL)	YWJ1000EKB1A	Printed Circuit Board Assy
CN1-4	YWF244D050GE	Connector
CN15	YWF795P040LA	Connector
CN16,27	YWF795P020LA	Connector
E1	YWCC500LB13	Washer

REAR-3 BOARD

REF.NO.	PART NO.	DESCRIPTION	
PCB2 (RTL)	YWJ1000EKC1A	Printed Circuit BoardAssy	
R100,103	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R104,107	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R108,111	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R112,115	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R117,118	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R121,122	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R125,126	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R129,130	ERJ6GEY0R00	Carbon	0 ohms 1/10W
C1-8	YF400220CHJT	Ceramic	22 pF
C102,106	YF400220CHJT	Ceramic	22 pF
C110,114	YF400220CHJT	Ceramic	22 pF
C116,120	YF400220CHJT	Ceramic	22 pF
C124,128	YF400220CHJT	Ceramic	22 pF
L100-115	YWBLM21A05PT	Coil	
CN19	YWF795P024LA	24-pin Connector	
CN100	YW16PRN3SEA	Connector	
CN101	YWHA16RN3PEA	3-pin Connector	
M64	YWV2SA2789A3	Mounting Angle	
M91	YWV2HA2006A3	Shield Parts	

REAR-1 BOARD

REF.NO.	PART NO.	DESCRIPTION	
PCB3 (RTL)	YWJ1000EKZAA	Printed Circuit Board Assy	
R1-11	YF2116750JT	Carbon	75 ohms 1/10W
C1-37	YF400220CHJT	Ceramic	22 pF
C38	ECST1AX106ZR	Tanyalum	10 µF 10V
C39-43	YF400220CHJT	Ceramic	22 pF
C44	ECST1ED106ZR	Electrolytic	10 µF 25V
C45-48	YF400220CHJT	Ceramic	22 pF
L1-37	YWBLM21A05PT	Coil	
L38	ELJFA1R0KF	Coil	1 µH
L39,40	YWBLM21A05PT	Coil	
L41	ELJFA1R0KF	Coil	1 µH
L42-48	YWBLM21A05PT	Coil	
CN5-7	YWJES9S5A3G	9-pin -pin Connector	
CN8-11	YWT6819AABB	6-pin Connector	
CN12	YWD4183J290	8-pin Connector	
CN13	YWF795P024LA	24-pin Connector	
CN14,17	YWP2283	6-pin Connector	
CN18	YWF795P030LA	30-pin Connector	
CN19	YWD4183J290	8-pin Connector	
CN20	YWF795P014LA	14-pin Connector	
CN21,22	YWP2283	6-pin Connector	
CN23	YWD4183J290	8-pin Connector	
CN24	YWP2284	8-pin Connector	
CN25	YWD4183J290	8-pin Connector	
CN26	YWP2285	9-pin Connector	
CN30	YWF795P026LA	26-pin Connector	

MIXER BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB4 (RTL)	YWV0EA1025AN	Printed Circuit BoardAssy
IC1-3	YWUPD42102G3	IC
IC4-15	YWM5M4C500AV	IC
IC16,17	YWSC7SU04F	IC
IC18,19	MC74HC574AF	IC
IC21,22	MC74HC574AF	IC
IC23	YWSC7S00F	IC
IC24	YWMC74AC74M	IC
IC25	YWSC7S00F	IC
IC26	YWSC7SU04F	IC
IC27	YWL7A1113	IC
IC28-30	YWUPD42102G3	IC
IC31	YWSC7SU04F	IC
IC32	YWPD65658191	IC
IC33,34	YWUPD42102G3	IC
IC35	MC74HC157AF	IC
IC36	YWSC7SU04F	IC
IC37-43	MC74HC574AF	IC
IC44-46	YWUPD42102G3	IC
IC47-58	YWM5M4C500AV	IC
IC59	MC74HC574AF	IC
IC60	YWSC7SU04F	IC
IC61,63	MC74HC574AF	IC
IC64,65	MC74HC574AF	IC
IC66	YWL7A1113	IC
IC67-69	YWUPD42102G3	IC
IC70	YWSC7SU04F	IC
IC71	YWPD65658191	IC
IC73,74	YWUPD42102G3	IC
IC75	YWSC7SU04F	IC
IC76	YWMC74AC74M	IC
IC77	MC74HC574AF	IC
IC79	YWSC7S08F	IC
IC90	MC74HC574AF	IC
IC201	YWL7A1399	IC
IC202	YWPD65664106	IC
IC203-207	YWHM63021FP	IC
IC208	YWUPD42102G3	IC
IC209	YWL7A1398	IC
IC210	YWUPD42102G3	IC
IC212	YWSS400212CA	IC
IC214	YWPD65658138	IC
IC215,216	YWMB40968PF	IC
IC217	YW78L05UATE2	IC
IC218-221	YWMC74AC541M	IC
IC222	YWPD65044U07	IC
IC223	YWLM1881M	IC
IC224-227	YWSC7SU04F	IC
IC228	YWNJM2245M	IC
IC230	MC74HC240AF	IC
IC231	YWMC74HC08AF	IC
IC232	YWSC7SU04F	IC
IC233	YWMC74HC74AF	IC
IC235	YWSC7SU04F	IC
IC236,237	MC74HC157AF	IC
IC238,239	MC74HC574AF	IC
IC240	YWSC7S08F	IC
IC501	MC74HC574AF	IC
IC502	YWSC7S32FER	IC
IC503	YWMC74AC04M	IC
IC504	YWMC74AC32M	IC
IC505	YWM51953BFP	IC
IC506	MC74HC174AF	IC
IC507	YWM68340FE16	IC
IC508	YWCXK581000A	LSI
IC509	YWCXK581000A	LSI
IC510	YWMC74HC74AF	IC
IC511	YWMC74HC74AF	IC
IC512	YWMC74HC04AF	IC
IC513	MC74HC138AF	IC
IC514	YWMC74HC27F	IC
IC515	YWMC74HC27F	IC
IC517	YWMC74AC157M	IC
IC518	YW18CV8AV003	Custom IC
IC519,520	YWSNHCT652DW	IC
IC521,522	MC74HC574AF	IC
IC524	YWSC7S08F	IC
IC525	YWMC74AC32M	IC
IC528	YWSC7S08F	IC
IC529	YWMC74HC27F	IC
IC530	MC74HC138AF	IC
IC531,532	YWMC74HC74AF	IC
IC533,534	MC74HC245AF	IC
IC535,536	MC74HC541AF	IC
IC537	MC74HC125AF	IC
IC701	79L05UATE2	IC
IC702,703	YWNJM2235M	IC
IC704,705	YWSC7S08F	IC
IC706	79L05UATE2	IC
IC707,708	YWSC7S08F	IC
IC709-711	YWNJM2235M	IC
IC712	YWSC7SU04F	IC
IC713,714	YWSC7S08F	IC
IC851	79L05UATE2	IC
Q1,2	MSB709-QRS	Transistor
Q3	2SK198-Q	Transistor
Q4	MSB709-QRS	Transistor
Q5	MSB709-QRS	Transistor
Q6	2SK198-Q	Transistor
Q201-204	MSB709-QRS	Transistor
Q205	2SK198-Q	Transistor
Q206	2SK198-Q	Transistor
Q207-210	MSD601-QRS	Transistor
Q211	MSB709-QRS	Transistor
Q212-214	MSD601-QRS	Transistor

REF.NO.	PART NO.	DESCRIPTION
Q220-222	MSD601-QRS	Transistor
Q501	MSD601-QRS	Transistor
Q701	MSD601-QRS	Transistor
Q702	MSB709-QRS	Transistor
Q703-707	MSD601-QRS	Transistor
Q708	MSB709-QRS	Transistor
Q709,710	MSD601-QRS	Transistor
Q711,712	MSB709-QRS	Transistor
Q713,714	MSD601-QRS	Transistor
Q715	MSB709-QRS	Transistor
Q716	MSD601-QRS	Transistor
Q717	MSB709-QRS	Transistor
Q718-723	MSD601-QRS	Transistor
Q724	MSB709-QRS	Transistor
Q725	MSD601-QRS	Transistor
Q726	MSB709-QRS	Transistor
Q727	MSD601-QRS	Transistor
Q728	MSB709-QRS	Transistor
Q729,730	MSD601-QRS	Transistor
Q731	MSB709-QRS	Transistor
Q732	MSD601-QRS	Transistor
Q733	MSB709-QRS	Transistor
Q734	MSD601-QRS	Transistor
Q735	MSB709-QRS	Transistor
Q736-740	MSD601-QRS	Transistor
Q741	MSB709-QRS	Transistor
Q742	MSD601-QRS	Transistor
Q743	MSB709-QRS	Transistor
Q744	MSD601-QRS	Transistor
Q745	MSB709-QRS	Transistor
Q746,747	MSD601-QRS	Transistor
Q748	MSB709-QRS	Transistor
Q749	MSD601-QRS	Transistor
Q750,751	MSB709-QRS	Transistor
Q752	MSD601-QRS	Transistor
Q753	MSB709-QRS	Transistor
Q754	MSD601-QRS	Transistor
Q755	MSB709-QRS	Transistor
Q756,757	MSD601-QRS	Transistor
Q758	MSB709-QRS	Transistor
Q759	MSD601-QRS	Transistor
Q760	MSB709-QRS	Transistor
Q761	MSD601-QRS	Transistor
Q762	MSB709-QRS	Transistor
Q763-768	MSD601-QRS	Transistor
Q769	MSB709-QRS	Transistor
Q770	MSD601-QRS	Transistor
Q771	MSB709-QRS	Transistor
Q772	MSD601-QRS	Transistor
Q773	MSB709-QRS	Transistor
Q774,775	MSD601-QRS	Transistor
Q776	MSB709-QRS	Transistor
Q777	MSD601-QRS	Transistor

REF.NO.	PART NO.	DESCRIPTION	
Q778	MSB709-QRS	Transistor	
Q779	MSD601-QRS	Transistor	
Q780	MSB709-QRS	Transistor	
Q781-786	MSD601-QRS	Transistor	
Q787	MSB709-QRS	Transistor	
Q788	MSD601-QRS	Transistor	
Q789	MSB709-QRS	Transistor	
Q790	MSD601-QRS	Transistor	
Q791	MSB709-QRS	Transistor	
Q792,793	MSD601-QRS	Transistor	
Q794	MSB709-QRS	Transistor	
Q795	MSD601-QRS	Transistor	
Q796	MSB709-QRS	Transistor	
Q797	MSD601-QRS	Transistor	
Q798-800	MSB709-QRS	Transistor	
Q801,802	MSD601-QRS	Transistor	
Q803,804	MSB709-QRS	Transistor	
Q805,806	MSD601-QRS	Transistor	
Q807,808	MSB709-QRS	Transistor	
Q851	MSB709-QRS	Transistor	
Q852	MSD601-QRS	Transistor	
Q853	MSB709-QRS	Transistor	
TH297	YWLP163KG302	Thermistor	
TH925	YWL311F152G5	Thermistor	
D1,2	1SV153	Diode	
D201,202	YWHVU359TRF	Diode	
D203,204	1SV153	Diode	
D205	YWDAN212K	Diode	
R1	YF2116101JT	Carbon	100 ohms 1/10W
R2	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R3,4	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R5-16	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R17-19	YF2116101JT	Carbon	100 ohms 1/10W
R20,21	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R22-24	YF2116101JT	Carbon	100 ohms 1/10W
R25	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R26	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R27	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R28	YF2116331JT	Carbon	330 ohms 1/10W
R29	YF2116511JT	Carbon	510 ohms 1/10W
R30	YF2116752JT	Carbon	7.5K ohms 1/10W
R31	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R32	YF2116332JT	Carbon	3.3K ohms 1/10W
R33	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R34	YF2116104JT	Carbon	100K ohms 1/10W
R35	YF2116331JT	Carbon	330 ohms 1/10W
R36	YF2116101JT	Carbon	100 ohms 1/10W
R37	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R38,42	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R43	YF2116101JT	Carbon	100 ohms 1/10W
R44	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R45,46	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R47-58	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R59-64	YF2116101JT	Carbon	100 ohms 1/10W
R65	ERJ6GEY0R00	Carbon	0 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R66	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R67	YF2116331JT	Carbon	330 ohms 1/10W
R68	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R69	YF2116752JT	Carbon	7.5K ohms 1/10W
R70	YF2116511JT	Carbon	510 ohms 1/10W
R71	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R72	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R73	YF2116332JT	Carbon	3.3K ohms 1/10W
R74	YF2116101JT	Carbon	100 ohms 1/10W
R75	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R76,80	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R82	YF2116331JT	Carbon	330 ohms 1/10W
R83	YF2116101JT	Carbon	100 ohms 1/10W
R84-89	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R90-92	YF2116101JT	Carbon	100 ohms 1/10W
R93	YF2116104JT	Carbon	100K ohms 1/10W
R94	YF2116331JT	Carbon	330 ohms 1/10W
R95,96	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R100,201	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R203	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R204,206	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R207	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R209	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R210-212	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R213,214	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R216-219	YF2116101JT	Carbon	100 ohms 1/10W
R220-222	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R226	YF2116101JT	Carbon	100 ohms 1/10W
R228	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R229-239	YF2116101JT	Carbon	100 ohms 1/10W
R240	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R241,242	YF2116101JT	Carbon	100 ohms 1/10W
R243,255	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R257,260	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R262,264	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R265,268	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R269	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R271	YF2116101JT	Carbon	100 ohms 1/10W
R272	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R273	YF2116331JT	Carbon	330 ohms 1/10W
R274	YF2116513JT	Carbon	51K ohms 1/10W
R275	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R276	YF2116331JT	Carbon	330 ohms 1/10W
R277,278	YF2116104JT	Carbon	100K ohms 1/10W
R279-288	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R289	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R290	YF2116104JT	Carbon	100K ohms 1/10W
R292	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R293	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R294	YF2116331JT	Carbon	330 ohms 1/10W
R295,296	YF2116104JT	Carbon	100K ohms 1/10W
R298	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R299	YF2116332JT	Carbon	3.3K ohms 1/10W
R300	YF2116511JT	Carbon	510 ohms 1/10W
R301	YF2116332JT	Carbon	3.3K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R302	YF2116104JT	Carbon	100K ohms 1/10W
R303	YF2116331JT	Carbon	330 ohms 1/10W
R304	ERJ6GEYJ684	Carbon	680K ohms 1/10W
R305,306	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R308,309	YF2116101JT	Carbon	100 ohms 1/10W
R311	YF2116101JT	Carbon	100 ohms 1/10W
R312	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R314,315	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R317	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R318	YF2116104JT	Carbon	100K ohms 1/10W
R319,320	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R321	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R322	YF2116511JT	Carbon	510 ohms 1/10W
R323	YF2116682JT	Carbon	6.8K ohms 1/10W
R324	YF2116511JT	Carbon	510 ohms 1/10W
R325	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R326	YF2116123JT	Carbon	12K ohms 1/10W
R327	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R328	YF2116183GT	Carbon	18K ohms 1/10W
R329	YF2116822JT	Carbon	8.2K ohms 1/10W
R330,331	YF2116331JT	Carbon	330 ohms 1/10W
R332	YF2116152JT	Carbon	1.5K ohms 1/10W
R333-335	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R336	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R337	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R338	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R339	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R341	YF2116104JT	Carbon	100K ohms 1/10W
R342	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R343	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R344	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R345	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R346,347	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R348,349	YF2116101JT	Carbon	100 ohms 1/10W
R351,352	YF2116101JT	Carbon	100 ohms 1/10W
R353,354	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R355	YF2116561JT	Carbon	560 ohms 1/10W
R356	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R357	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R358	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R359,360	YF2116101JT	Carbon	100 ohms 1/10W
R363-365	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R366	YF2116101JT	Carbon	100 ohms 1/10W
R367	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R368	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R369	ERJ6GEYJ333	Carbon	33K ohms 1/10W
R371	YF2116561JT	Carbon	560 ohms 1/10W
R372	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R373,400	YF2116101JT	Carbon	100 ohms 1/10W
R501,502	YF2116101JT	Carbon	100 ohms 1/10W
R503	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R504-506	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R507-509	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R510	ERJ6GEYJ103	Carbon	10K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R511,512	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R513	ERJ6GEYJ106	Carbon	10M ohms 1/10W
R514	YF2116334JT	Carbon	330K ohms 1/10W
R515,516	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R517,518	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R519-522	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R523-529	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R530	YF2116104JT	Carbon	100K ohms 1/10W
R531-535	YF2116101JT	Carbon	100 ohms 1/10W
R537	YF2116101JT	Carbon	100 ohms 1/10W
R538,539	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R540	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R541	YF2116331JT	Carbon	330 ohms 1/10W
R542	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R543,544	YF2116101JT	Carbon	100 ohms 1/10W
R548	YF2116331JT	Carbon	330 ohms 1/10W
R550-552	YF2116101JT	Carbon	100 ohms 1/10W
R553	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R554-559	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R560	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R561-563	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R564	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R565,566	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R567,568	YF2116101JT	Carbon	100 ohms 1/10W
R701	ERJ14YJ751	Carbon	750 OHMS 1/4W
R702,704	YWR1220P102D	Metal	1K ohms
R706	YFR1220P222D	Metal	2.2K ohms
R707	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R708	YF2116104JT	Carbon	100K ohms 1/10W
R709	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R710,711	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R712	YF2116331JT	Carbon	330 ohms 1/10W
R713	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R714	YF2116101JT	Carbon	100 ohms 1/10W
R715	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R716	YWR1220P511D	Metal	510 ohms
R717	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R718	YFR1220P222D	Metal	2.2K ohms
R719	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R720	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R721	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R722	YF2116912GT	Carbon	9.1K ohms 1/10W
R723	YF2116332JT	Carbon	3.3K ohms 1/10W
R724	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R725	YF2116273GT	Carbon	27K ohms 1/10W
R726	YF2116101JT	Carbon	100 ohms 1/10W
R727	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R728	YF2116101JT	Carbon	100 ohms 1/10W
R729,730	YF2116330JT	Carbon	33 ohms 1/10W
R731,732	YF2116101JT	Carbon	100 ohms 1/10W
R733	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R734,735	YF2116101JT	Carbon	100 ohms 1/10W
R736,737	YF2116330JT	Carbon	33 ohms 1/10W
R738	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R739	YF2116101JT	Carbon	100 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R740	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R742	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R743	YF2116101JT	Carbon	100 ohms 1/10W
R744	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R745	YWR1220P102D	Metal	1K ohms
R746	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R747	ERJ14YJ100	Carbon	10 ohms 1/4W
R748	YWR1220P182D	Metal	1.8K ohms
R749	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R750	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R751	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R752	YF2116912GT	Carbon	9.1K ohms 1/10W
R753	YF2116332JT	Carbon	3.3K ohms 1/10W
R754	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R755	YF2116273GT	Carbon	27K ohms 1/10W
R756	YF2116101JT	Carbon	100 ohms 1/10W
R757	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R758	YF2116101JT	Carbon	100 ohms 1/10W
R759,760	YF2116330JT	Carbon	33 ohms 1/10W
R761,762	YF2116101JT	Carbon	100 ohms 1/10W
R763	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R764,765	YF2116101JT	Carbon	100 ohms 1/10W
R766,767	YF2116330JT	Carbon	33 ohms 1/10W
R768	ERJ14YJ751	Carbon	750 ohms 1/4W
R769-771	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R772,773	YF2116332JT	Carbon	3.3K ohms 1/10W
R774	YF2116331JT	Carbon	330 ohms 1/10W
R775	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R776	YF2116101JT	Carbon	100 ohms 1/10W
R777	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R778	YWR1220P221D	Metal	220 ohms
R779	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R780	YWR1220P162D	Metal	1.6K ohms
R781	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R782	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R783	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R784	YF2116912GT	Carbon	9.1K ohms 1/10W
R785	YF2116332JT	Carbon	3.3K ohms 1/10W
R786	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R787	YF2116273GT	Carbon	27K ohms 1/10W
R788	YF2116101JT	Carbon	100 ohms 1/10W
R789	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R790	YF2116101JT	Carbon	100 ohms 1/10W
R791,792	YF2116330JT	Carbon	33 ohms 1/10W
R793,794	YF2116101JT	Carbon	100 ohms 1/10W
R795	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R796,797	YF2116101JT	Carbon	100 ohms 1/10W
R798,799	YF2116330JT	Carbon	33 ohms 1/10W
R800	YF2116273GT	Carbon	27K ohms 1/10W
R801	YF2116101JT	Carbon	100 ohms 1/10W
R802	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R803	YF2116101JT	Carbon	100 ohms 1/10W
R804,805	YF2116330JT	Carbon	33 ohms 1/10W
R806,807	YF2116101JT	Carbon	100 ohms 1/10W
R808	ERJ6GEYJ102	Carbon	1K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R809,810	YF2116101JT	Carbon	100 ohms 1/10W
R811,812	YF2116330JT	Carbon	33 ohms 1/10W
R813	ERJ14YJ751	Carbon	750 ohms 1/4W
R814-816	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R817	YF2116331JT	Carbon	330 ohms 1/10W
R818	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R819	YF2116101JT	Carbon	100 ohms 1/10W
R820	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R821	YWR1220P511D	Metal	510 ohms
R822	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R823	ERJ14YJ100	Carbon	10 ohms 1/4W
R824	YFR1220P222D	Metal	2.2K ohms
R825	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R826	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R827	YF2116912GT	Carbon	9.1K ohms 1/10W
R828	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R829	YF2116332JT	Carbon	3.3K ohms 1/10W
R831,832	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R833,834	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R835	ERJ14YJ100	Carbon	10 ohms 1/4W
R836	YF2116273GT	Carbon	27K ohms 1/10W
R837	YF2116101JT	Carbon	100 ohms 1/10W
R838	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R839,840	YF2116101JT	Carbon	100 ohms 1/10W
R841,842	YF2116330JT	Carbon	33 ohms 1/10W
R843	YF2116101JT	Carbon	100 ohms 1/10W
R844	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R845,846	YF2116101JT	Carbon	100 ohms 1/10W
R847,848	YF2116330JT	Carbon	33 ohms 1/10W
R849	ERJ14YJ751	Carbon	750 ohms 1/4W
R850-852	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R853	YF2116331JT	Carbon	330 ohms 1/10W
R854	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R855	YF2116101JT	Carbon	100 ohms 1/10W
R856	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R857	YWR1220P511D	Metal	510 ohms
R858	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R859	ERJ14YJ100	Carbon	10 ohms 1/4W
R860	YFR1220P222D	Metal	2.2K ohms
R861	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R862	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R863	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R864	YF2116912GT	Carbon	9.1K ohms 1/10W
R865	YF2116332JT	Carbon	3.3K ohms 1/10W
R867,868	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R869,870	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R871	ERJ14YJ100	Carbon	10 ohms 1/4W
R872	YF2116273GT	Carbon	27K ohms 1/10W
R873	YF2116101JT	Carbon	100 ohms 1/10W
R874	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R875,876	YF2116101JT	Carbon	100 ohms 1/10W
R877,878	YF2116330JT	Carbon	33 ohms 1/10W
R879	YF2116101JT	Carbon	100 ohms 1/10W
R880	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R881,882	YF2116101JT	Carbon	100 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R883,884	YF2116330JT	Carbon	33 ohms 1/10W
R885,886	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R887	YF2116222GT	Carbon	2.2K ohms 1/10W
R888	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R889	YWR1220P911D	Metal	910 ohms
R890	YFR1220P222D	Metal	2.2K ohms
R891	R1220P432D	Metal	4.3K ohms
R892	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R893	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R894	YF2116332JT	Carbon	3.3K ohms 1/10W
R895	YF2116222GT	Carbon	2.2K ohms 1/10W
R896	YF2116474JT	Carbon	470K ohms 1/10W
R897-900	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R901,902	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R903,904	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R905,906	YWR1220P102D	Metal	1K ohms
R907	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R908	R1220P133D	Metal	13K ohms
R909	YWR1220P911D	Metal	910 ohms
R910	YF2116471JT	Carbon	470 ohms 1/10W
R911,912	YF2116332JT	Carbon	3.3K ohms 1/10W
R913	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R914,915	YWR1220P102D	Metal	1K ohms
R916-918	ERDS2TJ100	Carbon	10 OHMS 1/4W
R920,921	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R922	L311J103J332	Carbon	10K ohms 1/10W
R923,924	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R926	YF2116152JT	Carbon	1.5K ohms 1/10W
R928,929	ERJ14Y0R00	Carbon	0 ohms 1/10W
R930	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R935	ERDS2TJ332	Carbon	3.3K ohms 1/4W
R936,937	ERDS1TJ225	Carbon	2.2M ohms
R938	YW2116182JT	Carbon	1.8K ohms 1/10W
R939	ERJ6GEY0R00	Carbon	0 ohms 1/10W
VR201	YWST4G203	Variable Resistor	20K ohms
VR202	EVM1DSW30B14	Variable Resistor	10K ohms
VR204	YWST4G103	Variable Resistor	10K ohms
VR701-705	EVM1DGA00B13	Variable Resistor	1K ohms
VR706,707	EVM1DSW30BE3	Variable Resistor	2.2K ohms
VR708	EVM1DSW30B23	Variable Resistor	2K ohms
Z1-4	EXBV8V101J	Block Resistor	
Z5-20	EXBV8V221J	Block Resistor	
Z21-35	EXBV8V101J	Block Resistor	
Z36-51	EXBV8V221J	Block Resistor	
Z201-206	EXBV8V101J	Block Resistor	
Z207	EXBM16P103J	Block Resistor	
Z208-216	EXBV8V221J	Block Resistor	
Z217-223	EXBV8V101J	Block Resistor	
Z224-240	EXBV8V221J	Block Resistor	
Z241	EXBM16P103J	Block Resistor	
Z501-503	EXBV8V101J	Block Resistor	
Z504-511	EXBV8V331J	Block Resistor	
Z512	EXBM16P103J	Block Resistor	
Z513-518	EXBV8V221J	Block Resistor	
Z519,520	EXBM16P103J	Block Resistor	

REF.NO.	PART NO.	DESCRIPTION	
Z521-524	EXBV8V221J	Block Resistor	
Z525	EXBM16P103J	Block Resistor	
Z526	EXBV8V221J	Block Resistor	
Z527-540	EXBV8V101J	Block Resistor	
Z541	EXBM16P103J	Block Resistor	
Z542-545	EXBV8V103J	Block Resistor	
C1	ECEV1CA101	Electrolytic	100 µF 16V
C2,3	YWT316B104MT	Ceramic	0.1 µF
C4	ECEV1CA101	Electrolytic	100 µF 16V
C5,6	ECEV1CG470GP	Electrolytic	47 µF 16V
C7-11	YWT316B104MT	Ceramic	0.1 µF
C13-42	YWT316B104MT	Ceramic	0.1 µF
C43	ECEV1CG220GP	Electrolytic	22 µF 16V
C44	ECEV0JA471	Electrolytic	470 µF 6.3V
C45,46	YWT316B104MT	Ceramic	0.1 µF
C47	ECEV1CG220GP	Electrolytic	22 µF 16V
C48	ECEV0JA471	Electrolytic	470 µF 6.3V
C49-62	YWT316B104MT	Ceramic	0.1 µF
C63	YF400270CHJT	Ceramic	27 pF
C64	YF400561CHJT	Ceramic	560pF
C65	YWT316B104MT	Ceramic	0.1 µF
C66	ECEV1CG470GP	Electrolytic	47 µF 16V
C67	ECEV1HG2R2GR	Electrolytic	22 µF 16V
C68	YF400332XKT	Ceramic	3300 pF
C69	YF400103XKT	Ceramic	0.01 µF
C70	YF400101CHJT	Ceramic	100 pF
C71-78	YWT316B104MT	Ceramic	0.1 µF
C83,84	ECEV1CG470GP	Electrolytic	47 µF 16V
C85-87	YWT316B104MT	Ceramic	0.1 µF
C89-115	YWT316B104MT	Ceramic	0.1 µF
C116	ECEV1CG220GP	Electrolytic	22 µF 16V
C117	ECEV0JA471	Electrolytic	470 µF 6.3V
C118,119	YWT316B104MT	Ceramic	0.1 µF
C120	ECEV1CG220GP	Electrolytic	22 µF 16V
C121	ECEV0JA471	Electrolytic	470 µF 6.3V
C122-135	YWT316B104MT	Ceramic	0.1 µF
C136	YF400270CHJT	Ceramic	27 pF
C137	ECEV1CG470GP	Electrolytic	47 µF 16V
C138	YWT316B104MT	Ceramic	0.1 µF
C139	YF400561CHJT	Ceramic	560 pF
C140	ECEV1HG2R2GR	Electrolytic	2.2 µF 50V
C141	YF400332XKT	Ceramic	3300 pF
C142	YWT316B104MT	Ceramic	0.1 µF
C143,144	ECEV1CG470GP	Electrolytic	47 µF 16V
C145	ECEV1CA101	Electrolytic	100 µF 16V
C146,147	YWT316B104MT	Ceramic	0.1 µF
C148	ECEV1CA101	Electrolytic	100 µF 16V
C149	YWT316B104MT	Ceramic	0.1 µF
C150	ECEV1CG470GP	Electrolytic	47 µF 16V
C151-154	YWT316B104MT	Ceramic	0.1 µF
C155	YF400103XKT	Ceramic	0.01 µF
C156	YF400101CHJT	Ceramic	100 pF
C157	YWT316B104MT	Ceramic	0.1 µF
C209-216	YF400330CHJT	Ceramic	33 pF
C225-232	YF400330CHJT	Ceramic	33 pF

REF.NO.	PART NO.	DESCRIPTION	
C241-246	YF400330CHJT	Ceramic	33 pF
C247	ECEV1CA101	Electrolytic	
C248,249	YWT316B104MT	Ceramic	0.1 µF
C250	ECEV1CA101	Electrolytic	100 µF 16V
C251	ECEV1CG470GP	Electrolytic	47 µF 16V
C252-261	YWT316B104MT	Ceramic	0.1 µF
C262,264	YF400330CHJT	Ceramic	33 pF
C266,268	YF400330CHJT	Ceramic	33 pF
C270,272	YF400330CHJT	Ceramic	33 pF
C274,276	YF400330CHJT	Ceramic	33 pF
C278,280	YF400330CHJT	Ceramic	33 pF
C282,284	YF400330CHJT	Ceramic	33 pF
C287,289	YF400330CHJT	Ceramic	33 pF
C291,293	YF400330CHJT	Ceramic	33 pF
C295,297	YF400330CHJT	Ceramic	33 pF
C299,301	YF400330CHJT	Ceramic	33 pF
C303,305	YF400330CHJT	Ceramic	33 pF
C307,309	YF400330CHJT	Ceramic	33 pF
C311,313	YF400330CHJT	Ceramic	33 pF
C315,317	YF400330CHJT	Ceramic	33 pF
C318-331	YWT316B104MT	Ceramic	0.1 µF
C332,333	ECEV1CG470GP	Electrolytic	47 µF 16V
C334-342	YWT316B104MT	Ceramic	0.1 µF
C344-351	YWT316B104MT	Ceramic	0.1 µF
C352	ECEV1CG470GP	Electrolytic	47 µF 16V
C353-362	YWT316B104MT	Ceramic	0.1 µF
C363,364	TAJC226M010	Electrolytic	22 µF 10V
C365	ECST1VX105ZR	Electrolytic	1 µF 35V
C366,367	YWT316B104MT	Ceramic	0.1 µF
C368,369	TAJC226M010	Electrolytic	22 µF 10V
C370	ECST1VX105ZR	Electrolytic	1 µF 35V
C371	ECEV1CG470GP	Electrolytic	47 µF 16V
C372-378	YWT316B104MT	Ceramic	0.1 µF
C379	TAJC106M016	Electrolytic	10 µF 16V
C380	YF400182XKT	Ceramic	1800 pF
C381	YF400104FZT	Ceramic	0.1 µF
C382-384	YWT316B104MT	Ceramic	0.1 µF
C385,386	YW400102CHJT	Ceramic	1000pF
C387	YWT316B104MT	Ceramic	0.1 µF
C388	YF400103XKT	Ceramic	0.01 µF
C389	YWT316B104MT	Ceramic	0.1 µF
C390	ECEV1CG220GP	Electrolytic	22 µF 16V
C391,392	YWT316B104MT	Ceramic	0.1 µF
C393,394	YF400101CHJT	Ceramic	100 pF
C395	YWT316B104MT	Ceramic	0.1 µF
C396	ECEV1HG2R2GR	Electrolytic	2.2 µF 50V
C397	YF400332XKT	Ceramic	3300 pF
C398	YF400103XKT	Ceramic	0.01 µF
C399	YF400331CHJT	Ceramic	330 pF
C400	YF400103XKT	Ceramic	0.01 µF
C401	YWT316B104MT	Ceramic	0.1 µF
C402	ECEV1CG470GP	Electrolytic	47 µF 16V
C403	YWT316B104MT	Ceramic	0.1 µF
C404	YF400101CHJT	Ceramic	100 pF
C405	TAJC226M010	Electrolytic	22 µF 10V

REF.NO.	PART NO.	DESCRIPTION	
C406	ECEV1CA101	Electrolytic	100 µF 16V
C407,408	YWT316B104MT	Ceramic	0.1 µF
C409	ECEV1CA101	Electrolytic	100 µF 16V
C410	ECEV1CG220GP	Electrolytic	22 µF 16V
C411,412	YF400390CHJT	Ceramic	39 pF
C413	YF400300CHJT	Ceramic	30 pF
C414	YF400100CHDT	Ceramic	10 pF
C415	ECEV1CG220GP	Electrolytic	22 µF 16V
C417	ECEV1CG470GP	Electrolytic	47 µF 16V
C418	ECEA1CSN220	Electrolytic	22µF 16V
C419	YF400150CHJT	Ceramic	15 pF
C420-423	YWT316B104MT	Ceramic	0.1 µF
C424	YF400104FZT	Ceramic	0.1 µF
C425	ECST1ED106ZR	Electrolytic	10 µF 25V
C426,427	YWT316B104MT	Ceramic	0.1 µF
C428	ECST1ED106ZR	Electrolytic	10 µF 25V
C429	YF400220CHJT	Ceramic	22 pF
C430	YWT316B104MT	Ceramic	0.1 µF
C431	TAJC106M016	Electrolytic	10 µF 16V
C432	YWT316B104MT	Ceramic	0.1 µF
C433	YW400105FZ	Ceramic	1 µF
C434,437	YWT316B104MT	Ceramic	0.1 µF
C438	YF400101CHJT	Ceramic	100 pF
C439	YF400150CHJT	Ceramic	15 pF
C440,441	YWT316B104MT	Ceramic	0.1 µF
C442-451	YF400330CHJT	Ceramic	33 pF
C452-457	YWT316B104MT	Ceramic	0.1 µF
C458,459	ECEV1CG470GP	Electrolytic	47 µF 16V
C460	TAJC226M010	Electrolytic	22 µF 10V
C461-465	ECEV1CG470GP	Electrolytic	47 µF 16V
C466	ECEV1CA101	Electrolytic	100 µF 16V
C467,468	YWT316B104MT	Ceramic	0.1 µF
C469	ECEV1CA101	Electrolytic	100 µF 16V
C470,471	YF400330CHJT	Ceramic	33 pF
C472	YWT316B104MT	Ceramic	0.1 µF
C473	YF400330CHJT	Ceramic	33 pF
C474,475	YWT316B104MT	Ceramic	0.1 µF
C478	YF400104FZT	Ceramic	0.1 µF
C479	YF400270CHJT	Ceramic	27 pF
C480	YWT316B104MT	Ceramic	0.1 µF
C483	YF400330CHJT	Ceramic	33 pF
C490	ECCF1H220JC	Ceramic	22 pF 50V
C491	YF400150CHJT	Ceramic	15 pF
C496	ECCF1H330JC	Ceramic	33 pF 50V
C497	ECCF1H220JC	Ceramic	22 pF 50V
C498	YWT316B104MT	Ceramic	0.1 µF
C499	ECST1ED106ZR	Electrolytic	10 µF 25V
C500	YF400101CHJT	Ceramic	100 pF
C501	ECEV1CA101	Electrolytic	100 µF 16V
C502,503	YWT316B104MT	Ceramic	0.1 µF
C504,505	ECEV1CA101	Electrolytic	100 µF 16V
C506,507	YWT316B104MT	Ceramic	0.1 µF
C508,509	ECEV1CA101	Electrolytic	100 µF 16V
C510,511	YWT316B104MT	Ceramic	0.1 µF
C512	ECEV1CA101	Electrolytic	100 µF 16V

REF.NO.	PART NO.	DESCRIPTION	
C513,514	YWT316B104MT	Ceramic	0.1 µF
C515-518	YF400330CHJT	Ceramic	33 pF
C520-524	YF400330CHJT	Ceramic	33 pF
C526	YF400330CHJT	Ceramic	33 pF
C528	YF400330CHJT	Ceramic	33 pF
C530-562	YF400330CHJT	Ceramic	33 pF
C564	YF400330CHJT	Ceramic	33 pF
C566	YF400330CHJT	Ceramic	33 pF
C568	YF400330CHJT	Ceramic	33 pF
C570	YF400330CHJT	Ceramic	33 pF
C572,574	YF400330CHJT	Ceramic	33 pF
C572,574	YF400330CHJT	Ceramic	33 pF
C576,578	YF400330CHJT	Ceramic	33 pF
C580,582	YF400330CHJT	Ceramic	33 pF
C584,586	YF400330CHJT	Ceramic	33 pF
C588,590	YF400330CHJT	Ceramic	33 pF
C592,594	YF400330CHJT	Ceramic	33 pF
C595-599	YF400330CHJT	Ceramic	33 pF
C600-602	YWT316B104MT	Ceramic	0.1 µF
C603	ECST1AY225ZR	Electrolytic	2.2 µF 10V
C604	ECEV1CG470GP	Electrolytic	47 µF 16V
C605	YWT316B104MT	Ceramic	0.1 µF
C606	ECEV1CG470GP	Electrolytic	47 µF 16V
C607-615	YWT316B104MT	Ceramic	0.1 µF
C616,617	YF400200CHJT	Ceramic	20 pF
C618-625	YWT316B104MT	Ceramic	0.1 µF
C626	ECEV1CG470GP	Electrolytic	47 µF 16V
C627	YWT316B104MT	Ceramic	0.1 µF
C628	ECEV1CG470GP	Electrolytic	47 µF 16V
C629	YWT316B104MT	Ceramic	0.1 µF
C630	ECEV1CG470GP	Electrolytic	47 µF 16V
C631-636	YWT316B104MT	Ceramic	0.1 µF
C638	YWT316B104MT	Ceramic	0.1 µF
C639	ECEV1CG470GP	Electrolytic	47 µF 16V
C641-645	YWT316B104MT	Ceramic	0.1 µF
C646-684	YF400330CHJT	Ceramic	33 pF
C686	YF400330CHJT	Ceramic	33 pF
C688,689	YWT316B104MT	Ceramic	0.1 µF
C692,693	YF400330CHJT	Ceramic	33 pF
C694	ECEV1CG470GP	Electrolytic	47 µF 16V
C695-699	YWT316B104MT	Ceramic	0.1 µF
C701	ECEV1EG470P	Electrolytic	47 µF 25V
C702,703	YWT316B104MT	Ceramic	0.1 µF
C704	ECEV1CG470GP	Electrolytic	47 µF 16V
C705	ECEV1EG470P	Electrolytic	47 µF 25V
C706,707	YWT316B104MT	Ceramic	0.1 µF
C708,709	ECEV1EG470P	Electrolytic	47 µF 25V
C710	YF400390CHJT	Ceramic	39 pF
C711	YF400470CHJT	Ceramic	47 pF
C712	ECEV1CG470GP	Electrolytic	47 µF 16V
C713	ECEV0JG470NP	Electrolytic	47 µF 6.3V
C714	YF400390CHJT	Ceramic	39 pF
C715	ECEV1CA101	Electrolytic	100 µF 16V
C716	ECEV1CG470GP	Electrolytic	47 µF 16V
C717	ECEV1CA101	Electrolytic	100 µF 16V

REF.NO.	PART NO.	DESCRIPTION	
C718	ECEV1CG470GP	Electrolytic	47 µF 16V
C719	YF400103XKT	Ceramic	0.01 µF
C720	ECEV1CG470GP	Electrolytic	47 µF 16V
C721	YF400103XKT	Ceramic	0.01 µF
C722	ECEV1EG470P	Electrolytic	47 µF 25V
C723	ECEV1CG470GP	Electrolytic	47 µF 16V
C724	YF400222XKT	Ceramic	2200 pF
C725	ECEV0JG470NP	Electrolytic	47 µF 6.3V
C726	YF400680CHJT	Ceramic	68 pF
C727	ECEV1CA101	Electrolytic	100 µF 16V
C728	ECEV1CG470GP	Electrolytic	47 µF 16V
C729	ECEV1CA101	Electrolytic	100 µF 16V
C730	ECEV1CG470GP	Electrolytic	47 µF 16V
C731	YF400103XKT	Ceramic	0.01 µF
C732	ECEV1CG470GP	Electrolytic	47 µF 16V
C733	YF400103XKT	Ceramic	0.01 µF
C734	ECEV1EG470P	Electrolytic	47 µF 25V
C735	ECEV1CG470GP	Electrolytic	47 µF 16V
C736	ECEV1CG220GP	Electrolytic	22 µF 16V
C737	YF400222XKT	Ceramic	2200 pF
C738	ECEV1CA101	Electrolytic	100 µF 16V
C739	ECEV1CG470GP	Electrolytic	47 µF 16V
C740	YF400222XKT	Ceramic	2200 pF
C741	ECEV1CG470GP	Electrolytic	47 µF 16V
C742	YF400103XKT	Ceramic	0.01 µF
C743	ECEV1CG470GP	Electrolytic	47 µF 16V
C744	YF400103XKT	Ceramic	0.01 µF
C745	ECEV1CA101	Electrolytic	100 µF 16V
C746	ECEV1CG470GP	Electrolytic	47 µF 16V
C747	YF400103XKT	Ceramic	0.01 µF
C748	ECEV1CG470GP	Electrolytic	47 µF 16V
C749	YF400103XKT	Ceramic	0.01 µF
C750	ECEV1EG470P	Electrolytic	47 µF 25V
C751	ECEV1CG470GP	Electrolytic	47 µF 16V
C752,753	ECEV1CA101	Electrolytic	100 µF 16V
C754	ECEV1CG470GP	Electrolytic	47 µF16V
C755	ECEV1AAN330P	Electrolytic	33 µF 10V
C756,757	ECEV1CA101	Electrolytic	100 µF 16V
C758	YWT316B104MT	Ceramic	0.1 µF
C759,760	ECEV1CG470GP	Electrolytic	47 µF16V
C761	YF400103XKT	Ceramic	0.01 µF
C762	ECEV1CG470GP	Electrolytic	47 µF16V
C763	YF400103XKT	Ceramic	0.01 µF
C764	ECEV1EG470P	Electrolytic	47 µF 25V
C765	ECEV1CG470GP	Electrolytic	47 µF16V
C766,767	ECEV1CA101	Electrolytic	100 µF 16V
C768	ECEV1CG470GP	Electrolytic	47 µF16V
C769	ECEV1AAN330P	Electrolytic	33 µF10V
C770,771	ECEV1CA101	Electrolytic	100 µF 16V
C772	YWT316B104MT	Ceramic	0.1 µF
C773,774	ECEV1CG470GP	Electrolytic	47 µF16V
C775	YF400103XKT	Ceramic	0.01 µF
C776	ECEV1CG470GP	Electrolytic	47 µF16V
C777	YF400103XKT	Ceramic	0.01 µF
C778	ECEV1CG470GP	Electrolytic	47 µF16V

REF.NO.	PART NO.	DESCRIPTION	
C779	YF400150CHJT	Ceramic	15 pF
C780	YF400101CHJT	Ceramic	100 pF
C781	YF400100CHDT	Ceramic	10 pF
C782	ECEV1EG4R7GR	Electrolytic	4.7 µF 25V
C783	ECEV0JG470GP	Electrolytic	47 µF 6.3V
C784,785	ECEV0JG101GP	Electrolytic	100 µF 6.3V
C786,787	YWT316B104MT	Ceramic	0.1 µF
C788	ECEV1CG470GP	Electrolytic	47 µF16V
C789	YWT316B104MT	Ceramic	0.1 µF
C790	ECEV1EG470P	Electrolytic	47 µF 25V
C791	YWT316B104MT	Ceramic	0.1 µF
C792	ECEV1EG470P	Electrolytic	47 µF 25V
C793	YWT316B104MT	Ceramic	0.1 µF
C794	ECEV1EG470P	Electrolytic	47 µF 25V
C795	YWT316B104MT	Ceramic	0.1 µF
C796	ECEV1EG470P	Electrolytic	47 µF 25V
C797	YWT316B104MT	Ceramic	0.1 µF
C798	ECEV1EG470P	Electrolytic	47 µF 25V
C799,802	YWT316B104MT	Ceramic	0.1 µF
C803	ECEV1CG470GP	Electrolytic	47 µF16V
C804	YF400101CHJT	Ceramic	100 pF
C805,810	YWT316B104MT	Ceramic	0.1 µF
C811-813	YWT316B104MT	Ceramic	0.1 µF
C814-816	YF400330CHJT	Ceramic	33 pF
C817	YWT316B104MT	Ceramic	0.1 µF
C820-822	ECSF1AE336	Electrolytic	33 µF 10V
C850-852	YF400104FZT	Ceramic	0.1 µF
C853	YF400101CHJT	Ceramic	100 pF
C855	YF400100CHDT	Ceramic	10 pF
C856	YF400104FZT	Ceramic	0.1 µF
C857	YWT316B104MT	Ceramic	0.1 µF
C858,859	YF400330CHJT	Ceramic	33 pF
C860	YWT316B104MT	Ceramic	0.1 µF
C861	ECEV1CG470GP	Electrolytic	47 µF16V
C870	ECCF1H100DC	Ceramic	10 pF 50V
C871	ECCF1H050CC	Ceramic	5 pF 50V
C902-979	YF400330CHJT	Ceramic	33 pF
C980,981	YF400820CHJT	Ceramic	82 pF
C983	ECEV1CA101	Electrolytic	100 µF 16V
C984	YF400104FZT	Ceramic	0.1 µF
C985	ECEV1CA101	Electrolytic	100 µF 16V
C986	YF400104FZT	Ceramic	0.1 µF
C987	ECST1ED106ZR	Electrolytic	10 µF 25V
C988	ECEV1AAN330P	Electrolytic	33 µF 10V
C989	YF400104FZT	Ceramic	0.1 µF
C990	ECST1ED106ZR	Tantalum	10 µF 25V
C991-993	YF400104FZT	Ceramic	0.1 µF
C994-999	YWT316B104MT	Ceramic	0.1 µF
L1	YWCD75100KC	Coil	10 µH
L2-7	ELJFA1R0KF	Coil	1 µH
L8	YW5206JPS104	Coil	
L10-15	ELJFA1R0KF	Coil	1 µH
L16	YW5206JPS104	Coil	
L17	YWCD75100KC	Coil	10 µH
L18	ELJFA1R0KF	Coil	1 µH

REF.NO.	PART NO.	DESCRIPTION	
L201	ELJFA1R0KF	Coil	1 µH
L202	YWCD75100KC	Coil	10 µH
L203-206	ELJFA1R0KF	Coil	1 µH
L207	YWCD75100KC	Coil	10 µH
L208-213	ELJFA1R0KF	Coil	1 µH
L214	YWCD75100KC	Coil	10 µH
L215	YWNL32270J	Coil	27 µH
L216	ELJFA180KB	Coil	18 µH
L217	ELJFA150KF	Coil	15 µH
L218	ELJFA101KB	Coil	100 µH
L219,220	ELJFA1R0KF	Coil	1 µH
L221	YWCD75100KC	Coil	10 µH
L501-503	YWCD75100KC	Coil	10 µH
L504-508	ELJFA1R0KF	Coil	1 µH
L701	YWCD75100KC	Coil	10 µH
L702-718	ELJFA1R0KF	Coil	1 µH
L719	ELJFA101KB	Coil	100 µH
L720	ELJFA150KF	Coil	15 µH
L721	ELJFA1R0KF	Coil	1 µH
L730	ELESN680JA	Coil	68 µH
SW1,2	YWCHS08B	Dip Switch	
SW201-203	YWS7051TA	Dip Switch	
X201	YWDX17R734	Crystal Oscillator	
X202	YWDX27R000	Crystal Oscillator	
X501	YWDMX38	Crystal Oscillator	
F203,204	YWSSFC1R2A	Current Fuse	1.2A
CF201	YW4FS6499	Filter	
CF701	YWCY4W057	Filter	
CF702	YWCY4W058	Filter	
CF703	YW2570JPS113	Lc Filter	
CF704,705	YWCY4T058	Filter	
TP1-6	YWRCT2125TPV	Test Point	
CN1	YW8817140L	140-pin Connector	
CN2	YW8817120L	120-pin Connector	
CN3,4	YW523400601	Connector	
CN5,6	YW524120601	Connector	
M65	YWV2HA1206A3	Shield Parts	
M66	YWV4RA0121A3	Lever	
M67	YWV7SA2083A4	Blank Label L	
M68	YWV7SA2084A4	Blank Label S	
M93	YWV2HA1209A2	Shield Parts	
M94	YWASB317	Spacer	

REF.NO.	PART NO.	DESCRIPTION	
J PEG/SCSI-2 SUB BOARD			
PCB5 (RTL)	YWJ1000EKY4A	Printed Circuit Board Assy	
IC1	YW18CV8AV015	Custom IC	
IC2	YWMC74HC393F	IC	
C1,2	TAJC106M016	Electrolytic Capacit	10 µF 16V
CG BOARD			
PCB6 (RTL)	YWJ1000EKZ5A	Printed Circuit Board Assy	
IC2	YWH534253BJ8	IC	
IC3	YWH534253BJ8	IC	
IC4	YWH538123BJ8	IC	
IC6	YWH534253BJ8	IC	
IC7	YWH534253BJ8	IC	
IC8	YWH538123BJ8	IC	
IC9,10	YWH534253BJ8	IC	
IC11	YWH538123BJ8	IC	
IC12,13	YWH534253BJ8	IC	
IC14	YWH538123BJ8	IC	
IC15,16	YWH534253BJ8	IC	
IC17	YWH538123BJ8	IC	
IC18,19	YWH534253BJ8	IC	
IC20	YWH538123BJ8	IC	
IC21	YWMC74AC574M	IC	
IC22	MC74HC573AF	IC	
IC23	YWCY7C18515V	IC	
IC24	MC74HC573AF	IC	
IC25	YWMC74AC574M	IC	
IC26	MC74HC573AF	IC	
IC27	YWCY7C18515V	IC	
IC28	MC74HC573AF	IC	
IC29	YWMC74AC574M	IC	
IC30	MC74HC573AF	IC	
IC31	YWCY7C18515V	IC	
IC32	MC74HC573AF	IC	
IC33	YWSC7SU04F	IC	
IC34	MC74HC574AF	IC	
IC35-42	YWUPD42102G3	IC	
IC43	YWPD65644040	IC	
IC44	M51951AMLW	IC	
IC45	YWMC74AC32M	IC	
IC46-57	MC74HC574AF	IC	
IC59	YW18CV8AV008	Custom IC	
IC60	YW18CV8AV006	Custom IC	
IC61	YWSC7S08F	IC	
IC62	YWTMS34020A3	IC	
IC63,64	YWSC7SU04F	IC	
IC65-67	YWSC7S00F	IC	
IC68	YW18CV8AV009	Custom IC	
IC69	YW18CV8AV007	Custom IC	
IC70,71	YW18CV8AV010	Custom IC	
IC72,73	YWMC74HC32AF	IC	
IC74-81	YW514800CLJ8	IC	

REF.NO.	PART NO.	DESCRIPTION	
IC82	MC74HC573AF	IC	
IC83	YWMC74AC574M	IC	
IC84	YWMC74HC32AF	IC	
IC85	YWMC74AC08M	IC	
IC86	YWMC74AC32M	IC	
IC87	YWMC74AC08M	IC	
IC88	YWMC74HC04AF	IC	
IC89	MC74HC125AF	IC	
IC90	MC74HC574AF	IC	
IC91,92	YWH534253BJ8	IC	
IC93	YWH538123BJ8	IC	
IC94,95	YWH534253BJ8	IC	
IC96	YWH538123BJ8	IC	
IC97	YWMC74AC541M	IC	
IC98	YWMC74AC32M	IC	
IC99-102	YWMC74AC245M	IC	
IC103	YWMC74AC574M	IC	
IC104	YWMC74HC74AF	IC	
IC105	YWSC7S08F	IC	
IC106	YWMC74AC541M	IC	
IC107	YWMC74AC32M	IC	
R2-5	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R14-16	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R24,25	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R27-30	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R33	YF2116101JT	Carbon	100 ohms 1/10W
R34-36	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R37	YF2116101JT	Carbon	100 ohms 1/10W
R39,40	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R41	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R45,47	YF2116101JT	Carbon	100 ohms 1/10W
R48-56	YF2116101JT	Carbon	100 ohms 1/10W
R61-64	YF2116101JT	Carbon	100 ohms 1/10W
R65-70	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R71	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R74-77	YF2116101JT	Carbon	100 ohms 1/10W
R80-82	YF2116101JT	Carbon	100 ohms 1/10W
R83	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R85,87	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R88-91	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R95,96	YF2116101JT	Carbon	100 ohms 1/10W
R98,100	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R102	YF2116101JT	Carbon	100 ohms 1/10W
R103-105	YF2116121JT	Carbon	120 ohms 1/10W
R106,108	YF2116101JT	Carbon	100 ohms 1/10W
R110-113	ERJ6GEYJ560	Carbon	56 ohms 1/10W
Z13-16	EXBV8V101J	Block Resistor	
Z17,18	EXBV8V103J	Block Resistor	
Z19-26	EXBV8V101J	Block Resistor	
Z27-30	EXBV8V560J	Block Resistor	
Z31-49	EXBV8V101J	Block Resistor	
Z56-73	EXBV8V101J	Block Resistor	
C3-14	TAJC106M016	Tantalum	10 μF 16V
C16	TAJC106M016	Tantalum	10 μF 16V
C17	YWT316B104MT	Ceramic	0.1 μF

REF.NO.	PART NO.	DESCRIPTION	
C18	TAJC106M016	Tantalum	10 μF 16V
C19	YWT316B104MT	Ceramic	0.1 μF
C21	TAJC106M016	Tantalum	10 μF 16V
C22	YWT316B104MT	Ceramic	0.1 μF
C23	TAJC106M016	Tantalum	10 μF 16V
C24	YWT316B104MT	Ceramic	0.1 μF
C25	TAJC106M016	Tantalum	10 μF 16V
C26	YWT316B104MT	Ceramic	0.1 μF
C27	TAJC106M016	Tantalum	10 μF 16V
C28	YWT316B104MT	Ceramic	0.1 μF
C29-33	TAJC106M016	Tantalum	10 μF 16V
C34,35	ECST1CD226	Tantalum	22 μF 16V
C36	TAJC106M016	Tantalum	10 μF 16V
C37-44	YWT316B104MT	Ceramic	0.1 μF
C45-47	TAJC106M016	Tantalum	10 μF 16V
C48-51	YWT316B104MT	Ceramic	0.1 μF
C52,53	ECST1CD226	Tantalum	22 μF 16V
C54	YWT316B104MT	Ceramic	0.1 μF
C55-65	TAJC106M016	Tantalum	10 μF 16V
C66,67	YWT316B104MT	Ceramic	0.1 μF
C68-70	ECEV0JG101GP	Electrolytic	100 μF 6.3V
C75-79	TAJC106M016	Tantalum	10 μF 16V
C84	YWT316B104MT	Ceramic	0.1 μF
C85-88	TAJC106M016	Tantalum	10 μF 16V
C89,90	YWT316B104MT	Ceramic	0.1 μF
C91	ECST1CD226	Tantalum	22 μF 16V
C92	YF400181CHJT	Ceramic	180 pF
C93	ECST1CD226	Tantalum	22 μF 16V
C94-101	YF400330CHJT	Ceramic	33 pF
C102	ECST1CD226	Tantalum	22 μF 16V
C103-106	YWT316B104MT	Ceramic	0.1 μF
C123,124	YF400330CHJT	Ceramic	33 pF
C125-127	YWT316B104MT	Ceramic	0.1 μF
C128-130	YF400121CHJT	Ceramic	120 pF
C131-133	ECEV0JG101GP	Electrolytic	100 μF 6.3V
C134-137	YF400680CHJT	Ceramic	68 pF
C138,139	YWT316B104MT	Ceramic	0.1 μF
C141	ECCF1H330JC	Ceramic	33 pF 50V
L1-10	ELJFA100KF	Coil	μH
L11,12	YWCD75100KC	Coil	μH
L13-15	ELJFA100KF	Coil	10μH
L16,17	YWCD75100KC	Coil	
X1	YWCSTCS32MX	Crystal Oscillator	
CN1	YW8817140L	Connector	
CN2	YW8817120L	Connector	
SF1,2	YWSSFC1R2A	Current Fuse	1.2A
CN6	YWPIC15A149	Socket	
TP1-26	YWRCT2125TPV	Test-Pin	
M65	YWV2HA1206A3	Shield Parts	
M66	YWV4RA0121A3	Lever	
M67	YWV7SA2083A4	Blank Label L	
M68	YWV7SA2084A4	Blank Label S	

REF.NO.	PART NO.	DESCRIPTION	
J PEG/SCSI-2 BOARD			
PCB7 (RTL)	YWJ1000EKZ6A	Printed Circuit Board Assy	
IC1-4	YWK428C256J7	IC	
IC5	YWL64745QC27	IC	
IC6	MC74HC245AF	IC	
IC7	YWMC74AC32M	IC	
IC8	YWL64735QC27	IC	
IC9	YWSC7S00F	IC	
IC10	YWMC74AC32M	IC	
IC11	YWL64765QC27	IC	
IC12,13	YWCY7C18515V	IC	
IC14	YWMC74HC00AF	IC	
IC15	M51951AMLW	IC	
IC16	YWMB86601APF	IC	
IC17	YWBH9595FPY	IC	
IC18	YW18CV8AV004	Custom IC	
IC19	YWPD65654225	Custom IC	
IC20	MC74HC245AF	IC	
IC21	MC74HC245AF	IC	
IC22	YWCY7C18515V	IC	
IC26	YWTMS4C2970	IC	
IC27	YWPD65640115	IC	
IC28	YWUPD42102G3	IC	
IC29	MC74HC541AF	IC	
IC30	MC74HC541AF	IC	
IC33	MC74HC574AF	IC	
IC34	MC74HC574AF	IC	
IC35	YWMC74AC245M	IC	
IC36	MC74HC125AF	IC	
IC37,38	YWMC74AC245M	IC	
IC39	YWSC7S00F	IC	
IC41	YWMC74AC541M	IC	
IC42	YWSC7S00F	IC	
IC200-203	YWK428C256J7	IC	
IC204	YWMC74AC32M	IC	
IC205	YWL64745QC27	IC	
IC206	MC74HC245AF	IC	
IC207	YWL64735QC27	IC	
IC208	YWSC7S00F	IC	
IC209	YWL64765QC27	IC	
IC210	YWMC74AC32M	IC	
IC211,212	YWCY7C18515V	IC	
IC213	YWMC74HC00AF	IC	
IC214	M51951AMLW	IC	
IC215	YWBH9595FPY	IC	
IC216	YWMB86601APF	IC	
IC217	YWPD65654225	Custom IC	
IC218	MC74HC245AF	IC	
IC219,220	MC74HC574AF	IC	
IC221	YWCY7C18515V	IC	
IC222	MC74HC245AF	IC	
IC223-225	YWMC74AC245M	IC	
R1	ERJ6GEYJ102	Carbon	1K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R4	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R5	YF2116330JT	Carbon	33 ohms 1/10W
R6,9	YF2116101JT	Carbon	100 ohms 1/10W
R13	YF2116101JT	Carbon	100 ohms 1/10W
R14	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R15	YF2116101JT	Carbon	100 ohms 1/10W
R16	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R17-24	YF2116101JT	Carbon	100 ohms 1/10W
R25	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R26,27	YF2116101JT	Carbon	100 ohms 1/10W
R32	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R33,36	YF2116101JT	Carbon	100 ohms 1/10W
R37-39	YF2116101JT	Carbon	100 ohms 1/10W
R42-45	YF2116101JT	Carbon	100 ohms 1/10W
R47-50	YF2116101JT	Carbon	100 ohms 1/10W
R51	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R52,54	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R66,74	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R77	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R78,82	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R83	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R84,86	YF2116101JT	Carbon	100 ohms 1/10W
R88	YF2116101JT	Carbon	100 ohms 1/10W
R90	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R94	YF2116101JT	Carbon	100 ohms 1/10W
R95	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R100	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R101,104	YF2116101JT	Carbon	100 ohms 1/10W
R105	YF2116101JT	Carbon	100 ohms 1/10W
R106,107	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R108,109	YF2116101JT	Carbon	100 ohms 1/10W
R110	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R111,112	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R115,116	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R117-119	YF2116101JT	Carbon	100 ohms 1/10W
R146	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R200	YF2116101JT	Carbon	100 ohms 1/10W
R201	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R202	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R203	YF2116330JT	Carbon	33 ohms 1/10W
R204	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R205,206	YF2116101JT	Carbon	100 ohms 1/10W
R208	YF2116101JT	Carbon	100 ohms 1/10W
R209	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R210-212	YF2116101JT	Carbon	100 ohms 1/10W
R214	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R215,217	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R229	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R237	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R238,239	ERJ6GEYJ560	Carbon	56 ohms 1/10W
Z1-20	EXBV8V101J	Block Resistor	
Z23-36	EXBV8V101J	Block Resistor	
Z37-40	EXBV8VR000	Block Resistor	
Z41-48	EXBV8V101J	Block Resistor	
Z49,50	EXBV8V100J	Block Resistor	

REF.NO.	PART NO.	DESCRIPTION
Z51-58	EXBV8V101J	Block Resistor
Z62-64	EXBV8V101J	Block Resistor
Z69-72	EXBV8V100J	Block Resistor
Z73-80	EXBV8V101J	Block Resistor
Z81-84	EXBV8VR000	Block Resistor
Z85-90	EXBV8V103J	Block Resistor
Z200-225	EXBV8V101J	Block Resistor
Z228-243	EXBV8V101J	Block Resistor
Z244-247	EXBV8V100J	Block Resistor
Z248-263	EXBV8V101J	Block Resistor
Z264-269	EXBV8V103J	Block Resistor
C1	YWT316B104MT	Ceramic 0.1 µF
C2	TAJC106M016	Electrolytic 10 µF 16V
C3	YWT316B104MT	Ceramic 0.1 µF
C4	TAJC106M016	Electrolytic 10 µF 16V
C5	YWT316B104MT	Ceramic 0.1 µF
C6	TAJC106M016	Electrolytic 10 µF 16V
C7	YWT316B104MT	Ceramic 0.1 µF
C8	TAJC106M016	Electrolytic 10 µF 16V
C9,10	ECST1CD226	Electrolytic 22 µF 16V
C11	YWT316B104MT	Ceramic 0.1 µF
C12	TAJC106M016	Electrolytic 10 µF 16V
C13	YF400120CHJT	Ceramic 12 pF
C14-16	ECST1CD226	Electrolytic 22 µF 16V
C17-19	TAJC106M016	Electrolytic 10 µF 16V
C20	YF400330CHJT	Ceramic 33 pF
C21	TAJC106M016	Electrolytic 10 µF 16V
C23-25	TAJD336M016	Electrolytic 33 µF 16V
C26	ECEV1AA330P	Electrolytic 33 µF 10V
C27	YWT316B104MT	Ceramic 0.1 µF
C28,29	ECEV0JG101GP	Electrolytic 100 µF 6.3V
C30	ECST1CD226	Electrolytic 22 µF 16V
C31,32	ECEV0JG101GP	Electrolytic 100 µF 6.3V
C33	YWT316B104MT	Ceramic 0.1 µF
C34-37	YF400120CHJT	Ceramic 12 pF
C38,39	ECST1CD226	Electrolytic 22 µF 16V
C40	YWT316B104MT	Ceramic 0.1 µF
C41,46	TAJC106M016	Electrolytic 10 µF 16V
C47	ECST1CD226	Electrolytic 22 µF 16V
C48	TAJC106M016	Electrolytic 10 µF 16V
C49,50	YWT316B104MT	Ceramic 0.1 µF
C53-55	YWT316B104MT	Ceramic 0.1 µF
C56,57	ECST1CD226	Electrolytic 22 µF 16V
C58	YWT316B104MT	Ceramic 0.1 µF
C59,60	TAJC106M016	Electrolytic 10 µF 16V
C61	YWT316B104MT	Ceramic 0.1 µF
C62-72	YF400330CHJT	Ceramic 33 pF
C73	TAJC106M016	Electrolytic 10 µF 16V
C200	YWT316B104MT	Ceramic 0.1 µF
C201	TAJC106M016	Electrolytic 10 µF 16V
C202	YWT316B104MT	Ceramic 0.1 µF
C203	TAJC106M016	Electrolytic 10 µF 16V
C204	YWT316B104MT	Ceramic 0.1 µF
C205	TAJC106M016	Electrolytic 10 µF 16V
C206	YWT316B104MT	Ceramic 0.1 µF

REF.NO.	PART NO.	DESCRIPTION
C207	TAJC106M016	Electrolytic 10 µF 16V
C208,209	ECST1CD226	Electrolytic 22 µF 16V
C210	YWT316B104MT	Ceramic 0.1 µF
C211	ECST1CD226	Electrolytic 22 µF 16V
C212	YF400120CHJT	Ceramic 12 pF
C213	TAJC106M016	Electrolytic 10 µF 16V
C214	ECST1CD226	Electrolytic 22 µF 16V
C215	TAJC106M016	Electrolytic 10 µF 16V
C216	ECST1CD226	Electrolytic 22 µF 16V
C217,218	TAJC106M016	Electrolytic 10 µF 16V
C219	TAJD336M016	Electrolytic 33 µF 16V
C220	YWT316B104MT	Ceramic 0.1 µF
C221	ECEV1AA330P	Electrolytic 33 µF 10V
C222,223	TAJD336M016	Electrolytic 33 µF 16V
C225	YF400330CHJT	Ceramic 33 12 pF
C226	TAJC106M016	Electrolytic 10 µF 16V
C227-230	YF400120CHJT	Ceramic 12 PF
C231,232	ECST1CD226	Electrolytic 22 µF 16V
C233	YF400104FZT	Ceramic 0.1 µF
C235,236	YWT316B104MT	Ceramic 0.1 µF
C237	TAJC106M016	Electrolytic 10 µF 16V
C238,239	YWT316B104MT	Ceramic 0.1 µF
C240,241	ECST1CD226	Electrolytic 22 µF 16V
C242,243	TAJC106M016	Electrolytic 10 µF 16V
L1-8	YWNL32100J	Coil 10 µH
L9-26	YWBLM21A05PT	Coil
L27,28	YWCD75100KC	Coil 10 µH
L29,200	YWNL32100J	Coil 10 µH
L201,202	YWNL32100J	Coil 10 µH
L203-220	YWBLM21A05PT	Coil
L221-225	YWNL32100J	Coil 10 µH
SF1,3	YWSSFC2AT4	Current Fuse 2A
CN1	YW8817140L	140-pin Connector
CN2	YW8817120L	140-pin Connector
TP1-32	YWRCS3216TPV	Test- Pin
TP200-219	YWRCS3216TPV	Test- Pin
M65	YWV2HA1206A3	Shield Parts
M66	YWV4RA0121A3	Lever
M67	YWV7SA2083A4	Blank Label L
M68	YWV7SA2084A4	Blank Label S

J PEG/SCSI-1 BOARD

REF.NO.	PART NO.	DESCRIPTION	
PCB8 (RTL)	YWJ1000EKZ7A	Printed Circuit Board Assy	
IC14	YWMC74HC00AF	IC	
IC15	M51951AMLW	IC	
IC16	YWMB86601A PF	IC	
IC17	YWBH9595FPY	IC	
IC18	YW18CV8AV004	Custom IC	
IC19	YWPD65654225	Custom IC	
IC20	MC74HC245AF	IC	
IC22	YWCY7C18515V	IC	
IC35	YWMC74AC245M	IC	
IC36	MC74HC125AF	IC	
IC40	MC74HC374AF	IC	
IC41	YWMC74AC541M	IC	
R7,10	YF2116101JT	Carbon	100 ohms 1/10W
R13	YF2116101JT	Carbon	100 ohms 1/10W
R14	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R15	YF2116101JT	Carbon	100 ohms 1/10W
R16	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R17-19	YF2116101JT	Carbon	100 ohms 1/10W
R22,27	YF2116101JT	Carbon	100 ohms 1/10W
R28	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R75,76	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R79,82	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R83	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R85,87	YF2116101JT	Carbon	100 ohms 1/10W
R89	YF2116101JT	Carbon	100 ohms 1/10W
R90	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R92,93	YF2116101JT	Carbon	100 ohms 1/10W
R97	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R98	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R99,100	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R101,105	YF2116101JT	Carbon	100 ohms 1/10W
R106	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R108,109	YF2116101JT	Carbon	100 ohms 1/10W
R110	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R111	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R113,114	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R117-119	ERDS2FJ101	Carbon	100 ohms 1/4W
Z29-36	EXBV8V101J	Block Resistor	
Z37-40	EXBV8VR000	Block Resistor	
Z49,50	EXBV8V100J	Block Resistor	
Z51-54	EXBV8V101J	Block Resistor	
Z57,58	EXBV8V101J	Block Resistor	
Z73-76	EXBV8V101J	Block Resistor	
Z85-90	EXBV8V103J	Block Resistor	
C20	YF400330CHJT	Ceramic	33 pF
C21	TAJC106M016	Tantalum	10 μF 16V
C23-25	TAJD336M016	Electrolytic	33 μF 16V
C26	ECEV1AA330P	Electrolytic	33 μF 10V
C27	YWT316B104MT	Ceramic	0.1 μF
C30	ECST1CD226	Electrolytic	22 μF 16V
C31,32	ECEV0JG101GP	Electrolytic	100 μF 6.3V
C33	YWT316B104MT	Ceramic	0.1 μF
C38,39	ECST1CD226	Electrolytic	22 μF 16V
C41	TAJC106M016	Tantalum	10 μF 16V
C55,58	YWT316B104MT	Ceramic	0.1 μF
C61	YWT316B104MT	Ceramic	0.1 μF
C62-72	YF400330CHJT	Ceramic	33 pF
C73	TAJC106M016	Tantalum	10 μF 16V
L6-8	YWNL32100J	Coil	10 μH
L9-26	YWBLM21A05PT	Coil	
L28	YWCD75100KC	Coil	10 μH
CN1	YW8817140L	140-pin Connector	
CN2	YW8817120L	120-pin Connector	
F3	YWSSFC1R2A	Current Fuse	1.2A
TP11-15	YWRCS3216TPV	Test-pin	
TP18-32	YWRCS3216TPV	Test-pin	
M65	YWV2HA1206A3	Shield Parts	
M66	YWV4RA0121A3	Lever	
M67	YWV7SA2083A4	Blank Label L	
M68	YWV7SA2084A4	Blank Label S	

MOTHER BOARD

REF.NO.	PART NO.	DESCRIPTION	
PCB9 (RTL)	YWJ1000EKZ8A	Printed Circuit Board Assy	
C10-31	YF400220CHJT	Ceramic	22 pF
CN1	YW8807140SN	140-pin Connector	
CN2	YW8807120SN	120-pin Connector	
CN3	YW8807140SN	140-pin Connector	
CN4	YW8807120SN	120-pin Connector	
CN5	YW8807140SN	140-pin Connector	
CN6	YW8807120SN	120-pin Connector	
CN7	YW8807140SN	140-pin Connector	
CN8	YW8807120SN	120-pin Connector	
CN9	YW8807140SN	140-pin Connector	
CN10	YW8807120SN	120-pin Connector	
CN11	YW8807140SN	140-pin Connector	
CN12	YW8807120SN	120-pin Connector	
CN13	YWF794P024LA	24-pin Connector	
CN15	YWF795P040LA	40-pin Connector	
CN16	YWF795P020LA	20-pin Connector	
CN17	YWF795P040LA	40-pin Connector	
CN18	YWF794P030LA	30-pin Connector	
CN19	YWF795P024LA	24-pin Connector	
CN20	YWF795P014LA	14-pin Connector	
CN27	YWF794P020LA	20-pin Connector	
CN30	YWF794P026LA	26-pin Connector	

POWER BOARD

REF.NO.		PART NO.	DESCRIPTION	
PCB10	(RTL)	YWJ1000EKZ9A	Printed Circuit Board Assy	
IC1	⚠	YWFA5304P	IC	
IC2		YWTA76431S	IC	
IC3		YWSI3122V	IC	
IC4		YWTA76431S	IC	
IC5	⚠	YWNJM7820FA	IC	
IC6		YWM51957BL	IC	
Q1	⚠	2SK1217-01	FET	
Q2	⚠	2SC3632	Transistor	
Q5		2SA1225Y	Transistor	
Q6		2SC1740	Transistor	
D1	⚠	YWD10XB60H	Diode	
D2	⚠	RU1P	Diode	
D4	⚠	YWRD18JB2	Diode	
D5	⚠	MA165	Diode	
D6	⚠	YWERA3804	Diode	
D7	⚠	MA165	Diode	
D8		YWPC111LY	Diode	
D9		YWESAD92M02	Diode	
D10		YWESAD83M006	Diode	
D11		YWESAC92M02	Diode	
D12		YWERA3804	Diode	
D13		MA165	Diode	
D14		YWRD9.1JB2	Diode	
D15		YWS60SC6M	Diode	
D16,17	⚠	YWERA1506	Diode	
D18-20	⚠	RU1P	Diode	
D21	⚠	YWPC111LY	Diode	
D22		YWRD5.6J	Diode	
TH1	⚠	YW8D18	Thermistor	
VS1		ERZC07DK471U	ZNR	
R1	⚠	ERC12ZGM105	Solid	1M ohms 1/2W
R2	⚠	ERG5SJ221	Metal	220 ohms 5W
R3	⚠	ERF5EKR10	Wire Wound	0.1 ohms 5W
R4,5	⚠	ERDS2TJ274	Carbon	270K ohms 1/4W
R6,7	⚠	ERG2SJ203	Metal	10K ohms 2W
R8,9	⚠	ERDS2TJ224	Carbon	220K ohms 1/4W
R10	⚠	ERDS2TJ223	Carbon	22K ohms 1/4W
R11	⚠	ERDS2TJ102	Carbon	1K ohms 1/4W
R13	⚠	ERDS2TJ151	Carbon	150 ohms 1/4W
R17	⚠	ERC12ZGM156	Solid Resistor	15M ohms 1/2W
R18		ERDS2TJ223	Carbon	22K ohms 1/4W
R19		ERDS2TJ333	Carbon	33K ohms 1/4W
R20		ERDS2TJ470	Carbon	47 ohms 1/4W
R21		ERDS2TJ182	Carbon	1.8K ohms 1/4W
R22		ERDS2TJ562	Carbon	5.6K ohms 1/4W
R23		ER0S2CKF6801	Metal	6.8K ohms 1/4W
R24		ER0S2CKF7501	Metal	7.5K ohms 1/4W
R25	⚠	ERG3SJ221	Metal	220 ohms 3W
R26		ERDS2TJ471	Carbon	470 ohms 1/4W
R27		ERDS2TJ392	Carbon	3.9K ohms 1/4W
R28		ER0S2CKF2202	Metal	22K ohms 1/4W
R29		ER0S2CKF5601	Metal	5.6K ohms 1/4W
R30	⚠	ERG2SJ100	Metal	10 ohms 2W
R32	⚠	ERF10TJ220	Wire Wound	22 ohms
R33	⚠	ERG3SJ120	Metal	12 ohms 3W
R34		ERDS2TJ202	Carbon	2K ohms 1/4W
R35		ERDS2TJ331	Carbon	330 ohms 1/4W
R36		ERDS2TJ102	Carbon	1K ohms 1/4W
R37		ERDS2TJ561	Carbon	560 ohms 1/4W
R38		ERDS2TJ151	Carbon	150 ohms 1/4W
R40,41	⚠	ERG5SJ203	Metal	20K ohms 5W
R42		ER0S2CKF1502	Metal	15K ohms 1/4W
R43		ERDS2TJ562	Carbon	5.6K ohms 1/4W
R44	⚠	ERG2SJ821	Metal	820 ohms 2W
R45,46	⚠	ERDS2TJ103	Carbon	10K ohms 1/4W
R47		ERDS2TJ820	Carbon	82 ohms 1/4W
R50	⚠	ERDS2TJ683	Carbon	68K ohms 1/4W
R53		ERG1SJ151	Metal	150 ohms 1W
VR1,2		YWRH0421C102	Variable Resistor	1K ohms
VR3		YWRH0421C222	Variable Resistor	2.2K ohms
C1,2	⚠	ECQU2A224MV	Plastic	0.22 µF 250V
C3-7	⚠	ECKDRS332ME	Ceramic	3300 pF
C8	⚠	EC0S2GB391EB	Electrolytic	390 µF 400V
C9	⚠	ECEA2GGE010	Electrolytic	1 µF 400V
C10	⚠	ECQV1H334JZ	Plastic	0.33 µF 50V
C11	⚠	ECQP1H391JZ	Plastic	390 pF 50V
C12	⚠	ECQV1H474JZ	Plastic	0.47 µF 50V
C13	⚠	ECQB1H103JZ	Plastic	0.01 µF 50V
C14,15	⚠	ECKD3F331KB	Electrolytic	330 µF 3KV
C16	⚠	ECA1EFQ331	Electrolytic	330 µF 25V
C17		ECQB1H102JF	Plastic	1000 pF 50V
C18		ECQV1H474JZ	Plastic	0.47 µF 50V
C19,20		ECA1EFQ102	Electrolytic	1000 µF 25V
C21,22		ECA1AFQ222	Electrolytic	22 µF 10V
C24		ECA1EFQ471	Electrolytic	470 µF 25V
C25		ECA1EFQ102	Electrolytic	1000 µF 25V
C26		ECQM1H104JZ	Plastic	0.1 µF
C27		ECA1EFQ471	Electrolytic	470 µF 25V
C28		ECA1EFQ102	Electrolytic	1000 µF 25V
C29		ECEA1HGE220	Electrolytic	µF 50V
C30		ECQV1H474JZ	Plastic	0.47 µF 50V
C31		ECQU2A224MV	Plastic	0.47 µF 50V
C32	⚠	EC0S2GB391EB	Electrolytic	390 µF 400V
C33	⚠	ECQM1H104JZ	Plastic	0.1 µF 50V
C34	⚠	ECA1HFQ330	Electrolytic	33 µF 50V
C35		ECA1AFQ102	Electrolytic	1000 µF 10V
C36,37		ECA1EFQ471	Electrolytic	470 µF 25V
C38		ECA1AFQ102	Electrolytic	1000 µF 10V
C39		ECA1EFQ471	Electrolytic	470 µF 25V
C40		ECA1AFQ102	Electrolytic	1000 µF 50V
C41	⚠	ECQE6103KZ	Plastic	0.01 µF 50V
C43		ECQM1H104JZ	Plastic	0.1 µF
C44		ECEA1HGE010	Electrolytic	1 µF 50V
C45		ECA1AFQ102	Electrolytic	1000 µF 10V

REF.NO.	PART NO.	DESCRIPTION	
C46	ECA1EFQ471	Electrolytic	470 µF 25V
C47,48	ECA1AFQ102	Electrolytic	1000 µF 10V
C49 ⚠	EC0S2GB391EB	Electrolytic	390 µF 400V
L1,2 ⚠	ELF18D850H	Coil	85 µH
L3 ⚠	YFBL02RN2R62	Coil	
L4	ETS42BH159AD	Coil	
L5	YWMSSX15X10A	Coil	
L6	ETS29AC1A9AC	Coil	
L7,8	PC15DRK330K	Coil	33 µH
L10,11	YWPC7220K	Coil	22 µH
L12	PC15DRK330K	Coil	
L13,14	YWPC7220K	Coil	22 µH
L17 ⚠	ELESN680JA	Coil	68 µH
L18-20	YWPC7220K	Coil	22 µH
L21 ⚠	YFBL02RN2R62	Coil	
L22-24	YWAB4X2X8	Coil	
L27	YFBL02RN2R62	Coil	
T1	ETS42BH196AD	Power Transformer	
CN1 ⚠	YWB4P7VH	7-pin Connector	
CN2	FCN795P030L0	30-pin Connector	
CN3	YW527112A	12-pin Connector	
CN4	YW530150410	4-pin Connector	
CN6	YW1718263	3-pin Connector	
CN7	YWLC04T	4-pin Connector	
CN8	YW530150210	2-pin Connector	
CN101 ⚠	YWB2P3VH	2-pin Connector	
F1 ⚠	XBA2C31ET0A	Current Fuse	3.16A 250V
F2 ⚠	SSFR1.6A002	Current Fuse	1.6A
F3-5 ⚠	SSFR6.3A002	Current Fuse	6.3A
F6,7 ⚠	SSFR1.6A002	Current Fuse	1.6A
F8 ⚠	SSFR6.3A002	Current Fuse	6.3A
J12	ERD10T0	Test-pin	
E1,2	S-N5057	Fuse Holder	
E3,4	YWM1748	Holder	
E6,7	YWM1845A	Holder	
E8,9	30TT03P03281	Insulator	
E10	YW85H13.540L	Insulator	
E12-16	YW851248	Insulator	
M41	YWV2SA2791A1	Mounting Angle	
M42	YWV2PA0645A4	Insulator	
M43	YWV2SA2792A3	Mounting Angle	
M55	YWA2QA0134A4	Electrode	
M56	YWPT2009	Spacer	
M57	YWPUG3630	Heat Sink	
M87	YWV2HA2008A3	Shield Parts	
M88	YWV2PA1012A4	Insulator A	
M89	YWV2PA1013A4	Insulator B	

AUDIO SUB BOARD

REF.NO.	PART NO.	DESCRIPTION	
PCB11 (RTL)	YWJ1000PRY5A	Printed Circuit Board Assy	
IC1,2	YWSC7SU04F	IC	
IC3	YWA1010B2LCC	Custom IC	
Q1	2SK198-Q	Transistor	
D1-4	1SV153	Diode	
R1	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R2	YF2116271JT	Carbon	270 ohms 1/10W
R3,4	YF2116104JT	Carbon	100K ohms 1/10W
R5	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R6	YF2116511JT	Carbon	510 ohms 1/10W
R7	YF2116474JT	Carbon	470K ohms 1/10W
R9	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R10-12	YF2116101JT	Carbon	100 ohms 1/10W
C1,2	YW400102CHJT	Ceramic	1000pF
C4,5	YF400104FZT	Ceramic	0.1 µF
C6	TAJA105M016	Electrolytic Capacit	1 µF 16V
C7	TAJC106M016	Electrolytic Capacit	10 µF 16V
C8-11	YF400104FZT	Ceramic	0.1 µF
C12	YF400271CHJT	Ceramic	270 pF
C13	YW400102CHJT	Ceramic	1000 pF
C14	YF426150CHJS	Ceramic	15 pF 50V
L1,2	YWNL32100J	Coil	
X1	YWDX12R288	Crystal Oscillator	
E101-104	YWCH23	Terminal	

AUDIO BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB12 (RTL)	YWJ1000EKZ1A	Printed Circuit Board Assy
IC1-4	YWH538253BJ8	IC
IC5	YWCY7C18515V	IC
IC6	MC74HC245AF	IC
IC7	YWAK5339VS	IC
IC8	YWPD65654225	Custom IIC
IC9	YW514800CLJ8	IC
IC11,12	YWSC7SU04F	IC
IC13	YWTMS57002BH	IC
IC15	NJM2068MD	IC
IC16	MC74HC138AF	IC
IC17,18	YWNJU201AM	IC
IC19-22	NJM2068MD	IC
IC23	YWMC74HC00AF	IC
IC25	YWMB86601ApF	IC
IC26	YWBH9595FPY	IC
IC27	YW18CV8AV004	Custom IC
IC28	YWMC74HC32AF	IC
IC30,31	NJM2068MD	IC
IC32-35	YWNJM4556AM	IC

REF.NO.	PART NO.	DESCRIPTION	
IC36	NJM2068MD	IC	
IC37	YWM51953BFP	IC	
IC38,39	NJM2068MD	IC	
IC40	MC74HC273AF	IC	
IC42	YWAK4328VS	IC	
IC43	YWSC7SU04F	IC	
IC500	MC74HC125AF	IC	
Q1	2SB766A-QR	Transistor	
Q2	2SD874A-RS	Transistor	
Q3	MSB709-QRS	Transistor	
Q5,7	2SD1030RST	Transistor	
Q9,11	2SD1030RST	Transistor	
Q13,15	2SD1030RST	Transistor	
Q17,19	2SD1030RST	Transistor	
Q21,23	2SD1030RST	Transistor	
Q25	2SD874A-RS	Transistor	
Q26	2SB766A-QR	Transistor	
Q27	MSB709-QRS	Transistor	
Q28	MSD601-QRS	Transistor	
Q29	MSB709-QRS	Transistor	
D1,2	MA3056HTW	Diode	
D3,5	YWDAN212K	Diode	
R1	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R2	YF2116101JT	Carbon	100 ohms 1/10W
R3	ERJ6GEYJ473	Carbon	47K ohms 1/10W
R4,5	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R6	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R7	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R8	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R9,10	ERJ6GEYJ473	Carbon	47K ohms 1/10W
R11-14	YF2116101JT	Carbon	100 ohms 1/10W
R19	YF2116101JT	Carbon	100 ohms 1/10W
R21,22	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R23	YF2116101JT	Carbon	100 ohms 1/10W
R24,25	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R28	YF2116101JT	Carbon	100 ohms 1/10W
R33	YWR1220P473D	Metal	47K ohms
R34	YWR1220P103D	Metal	10K ohms
R35	YFR1220P203D	Metal	20K ohms
R36	YFR1220P104D	Metal	100K ohms
R37	YWR1220P912D	Metal	9.2K ohms
R38	YWR1220P103D	Metal	10K ohms
R39	YFR1220P203D	Metal	20K ohms
R40	YFR1220P104D	Metal	100K ohms
R41	YWR1220P473D	Metal	47K ohms
R42	YWR1220P912D	Metal	9.2K ohms
R43	YWR1220P473D	Metal	47K ohms
R44	YWR1220P103D	Metal	10K ohms
R45	YFR1220P203D	Metal	20K ohms
R46	YFR1220P104D	Metal	100K ohms
R47	YWR1220P912D	Metal	9.2K ohms
R48	YWR1220P103D	Metal	10K ohms
R49	YFR1220P203D	Metal	20K ohms
R50	YFR1220P104D	Metal	100K ohms
R51	YWR1220P473D	Metal	47K ohms

REF.NO.	PART NO.	DESCRIPTION	
R52	YWR1220P912D	Metal	9.2K ohms
R53	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R54	YWR1220P512D	Metal	5.1K ohms
R55	YWR1220P103D	Metal	10K ohms
R56	YWR1220P332D	Metal	3.3K ohms
R57	YWR1220P473D	Metal	47K ohms
R58-61	YFR1220P104D	Metal	100K ohms
R62	YWR1220P473D	Metal	47K ohms
R63	YWR1220P183D	Metal	18K ohms
R64	YWR1220P153D	Metal	15K ohms
R65	YWR1220P301D	Metal	300 ohms
R66	YWR1220P473D	Metal	47K ohms
R67	YWR1220P301D	Metal	300 ohms
R68	YWR1220P473D	Metal	47K ohms
R69	YWR1220P301D	Metal	300 ohms
R70	YWR1220P183D	Metal	18K ohms
R71	YWR1220P153D	Metal	15K ohms
R72	YWR1220P301D	Metal	300 ohms
R73	YWR1220P183D	Metal	18K ohms
R74	YWR1220P153D	Metal	15K ohms
R75	YWR1220P301D	Metal	300 ohms
R76	YWR1220P473D	Metal	47K ohms
R77	YWR1220P301D	Metal	300 ohms
R78	YWR1220P473D	Metal	47K ohms
R79	YWR1220P301D	Metal	300 ohms
R80	YWR1220P183D	Metal	18K ohms
R81	YWR1220P153D	Metal	15K ohms
R82	YWR1220P301D	Metal	300 ohms
R83	YWR1220P473D	Metal	47K ohms
R84	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R85	YWR1220P332D	Metal	3.3K ohms
R86	YWR1220P103D	Metal	10K ohms
R87	YWR1220P512D	Metal	5.1K ohms
R88	YWR1220P473D	Metal	47K ohms
R89-92	YFR1220P104D	Metal	100K ohms
R93	YWR1220P473D	Metal	47K ohms
R94	YWR1220P183D	Metal	18K ohms
R95	YWR1220P153D	Metal	15K ohms
R96	YWR1220P301D	Metal	300 ohms
R97	YWR1220P473D	Metal	47K ohms
R98	YWR1220P301D	Metal	300 ohms
R99	YWR1220P473D	Metal	47K ohms
R100	YWR1220P301D	Metal	300 ohms
R101	YWR1220P183D	Metal	18K ohms
R102	YWR1220P153D	Metal	15K ohms
R103	YWR1220P301D	Metal	300 ohms
R104	YWR1220P183D	Metal	18K ohms
R105	YWR1220P153D	Metal	15K ohms
R106	YWR1220P301D	Metal	300 ohms
R107	YWR1220P473D	Metal	47K ohms
R108	YWR1220P301D	Metal	300 ohms
R109	YWR1220P473D	Metal	47K ohms
R110	YWR1220P301D	Metal	300 ohms
R111	YWR1220P473D	Metal	47K ohms
R112	YWR1220P183D	Metal	18K ohms

REF.NO.	PART NO.	DESCRIPTION	
R113	YWR1220P153D	Metal	15K ohms
R114	YWR1220P301D	Metal	300 ohms
R115,116	YWR1220P473D	Metal	47K ohms
R117	YWR1220P561D	Metal	560 ohms
R118	YWR1220P122D	Metal	1.2K ohms
R119	YWR1220P561D	Metal	560 ohms
R120	YWR1220P122D	Metal	1.2K ohms
R121,122	YWR1220P473D	Metal	47K ohms
R123-125	YF2116101JT	Carbon	100 ohms 1/10W
R127	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R128,138	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R139,140	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R141-144	YF2116101JT	Carbon	100 ohms 1/10W
R145	YF2116272JT	Carbon	2.7K ohms 1/10W
R146-150	YF2116101JT	Carbon	100 ohms 1/10W
R155	YWR1220P103D	Metal	10K ohms
R156	YWR1220P183D	Metal	18K ohms
R157,162	YWR1220P103D	Metal	10K ohms
R163	YWR1220P183D	Metal	18K ohms
R164	YWR1220P103D	Metal	10K ohms
R165	YF2116104JT	Carbon	100K ohms 1/10W
R166	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R169	YWR1220P183D	Metal	18K ohms
R170	YWR1220P112D	Metal	1.1K ohms
R171,172	YWR1220P103D	Metal	10K ohms
R173	YWR1220P102D	Metal	1K ohms
R174	YFR1220P203D	Metal	20K ohms
R175	YWR1220P470D	Metal	47 ohms
R176,177	YWR1220P103D	Metal	10K ohms
R178	YFR1220P203D	Metal	20K ohms
R179	YWR1220P102D	Metal	1K ohms
R180	YFR1220P203D	Metal	20K ohms
R181	YWR1220P470D	Metal	47ohms
R182,183	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R184,187	ERJ6GEYJ203	Carbon	20K ohms 1/10W
R188	YWR1220P183D	Metal	18K ohms
R189	YWR1220P112D	Metal	1.1K ohms
R190,191	YWR1220P103D	Metal	10K ohms
R192	YWR1220P102D	Metal	1K ohms
R193	YFR1220P203D	Metal	20K ohms
R194	YWR1220P470D	Metal	47ohms
R195,196	YWR1220P103D	Metal	10K ohms
R197	YFR1220P203D	Metal	20K ohms
R198	YWR1220P102D	Metal	1K ohms
R199	YFR1220P203D	Metal	20K ohms
R200	YWR1220P470D	Metal	47ohms
R201,202	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R203,206	YFR1220P203D	Metal	20K ohms
R207	YWR1220P183D	Metal	18K ohms
R208	YWR1220P112D	Metal	1.1K ohms
R209,210	YWR1220P103D	Metal	10K ohms
R211	YWR1220P102D	Metal	1K ohms
R212	YFR1220P203D	Metal	20K ohms
R213	YWR1220P470D	Metal	47 ohms
R214,215	YWR1220P103D	Metal	10K ohms
R216	YFR1220P203D	Metal	20K ohms
R217	YWR1220P102D	Metal	1K ohms
R218	YFR1220P203D	Metal	20K ohms
R219	YWR1220P470D	Metal	47 ohms
R220,221	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R222,225	ERJ6GEYJ203	Carbon	20K ohms 1/10W
R226	YWR1220P183D	Metal	18K ohms
R227	YWR1220P112D	Metal	1.1K ohms
R228,229	YWR1220P103D	Metal	10K ohms
R230	YWR1220P102D	Metal	1K ohms
R231	YFR1220P203D	Metal	20K ohms
R232	YWR1220P470D	Metal	47 ohms
R233,234	YWR1220P103D	Metal	10K ohms
R235	YFR1220P203D	Metal	20K ohms
R236	YWR1220P102D	Metal	1K ohms
R237	YFR1220P203D	Metal	20K ohms
R238	YWR1220P470D	Metal	47 ohms
R239,240	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R241,244	YFR1220P203D	Metal	20K ohms
R245	ERJ6GEYJ332	Carbon	3.3K ohms
R246	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R247	ERJ6GEYJ332	Carbon	3.3K ohms
R248	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R249,250	YWR1220P153D	Metal	15K ohms
R251	YWR1220Q750D	Metal	75 ohms
R252,253	YWR1220P153D	Metal	15K ohms
R254	YWR1220Q750D	Metal	75 ohms
R255,256	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R259,260	YFR1220P203D	Metal	20K ohms
R272,280	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R281	YWR1220P473D	Metal	47K ohms
R282	YF2116101JT	Carbon	100 ohms 1/10W
R283	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R284	YWR1220P473D	Metal	47K ohms
R285	YWR1220P163D	Metal	16K ohms
R286	R1220P822D	Metal	8.2K ohms
R287	YWR1220P103D	Metal	10K ohms
R291	YWR1220P163D	Metal	16K ohms
R292	R1220P822D	Metal	8.2K ohms
R293	YWR1220P103D	Metal	10K ohms
R298	YF2116104JT	Carbon	100K ohms 1/10W
R299,300	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R302	YF2116104JT	Carbon	100K ohms 1/10W
R303	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R304	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R305-307	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R310,311	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R500-502	YF2116101JT	Carbon	100 ohms 1/10W
R503-505	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R506	ERDS2TJ103	Carbon	10K ohms 1/4W
Z1-26	EXBV8V101J	Block Resistor	
Z29-43	EXBV8V101J	Block Resistor	
Z44,45	EXBV8V103J	Block Resistor	
C1	YWT316B104MT	Ceramic	0.1 µF
C2	TAJC106M016	Electrolytic	10 µF 16V

REF.NO.	PART NO.	DESCRIPTION	
C3	YWT316B104MT	Ceramic	0.1 µF
C4	TAJC106M016	Tantalum	10 µF 16V
C5	YWT316B104MT	Ceramic	0.1 µF
C6	TAJC106M016	Tantalum	10 µF 16V
C7	YWT316B104MT	Ceramic	0.1 µF
C8,9	TAJC106M016	Tantalum	10 µF 16V
C10	YWT316B104MT	Ceramic	0.1 µF
C11	ECST1CB685	Tantalum	6.8 µF 16V
C12	YWT316B104MT	Ceramic	0.1 µF
C13	YF400103XKT	Ceramic	0.01 µF
C14	YWT316B104MT	Ceramic	0.1 µF
C15	ECEV1EA221	Electrolytic	220 µF 25V
C16	YWT316B104MT	Ceramic	0.1 µF
C17	YF400103XKT	Ceramic	0.01 µF
C18	YWT316B104MT	Ceramic	0.1 µF
C19	ECEV1EA221	Electrolytic	220 µF 25V
C20	YWT316B104MT	Ceramic	0.1 µF
C21	ECEV1EA221	Electrolytic	220 µF 25V
C22,23	TAJC226M010	Tantalum	22 µF 10V
C24	TAJC106M016	Tantalum	10 µF 16V
C27	ECST1AX106ZR	Tantalum	10 µF 16V
C29	TAJC226M010	Tantalum	22 µF 10V
C30	ECST1AX106ZR	Tantalum	10 µF 16V
C31	YWT316B104MT	Ceramic	0.1 µF
C32,33	TAJC106M016	Tantalum	10 µF 16V
C34,35	YWT316B104MT	Ceramic	0.1 µF
C36	ECEV1EG470P	Electrolytic	47 µF 25V
C37	YWT316B104MT	Ceramic	0.1 µF
C38	ECEV1AAN330P	Electrolytic	33 µF 10V
C39	YF400150CHJT	Ceramic	15 pF
C40	ECEV1EG470P	Electrolytic	47 µF 25V
C41	YWT316B104MT	Ceramic	0.1 µF
C42	YF400150CHJT	Ceramic	15 pF
C43	ECEV1AAN330P	Electrolytic	33 µF 10V
C44	ECEV1EG470P	Electrolytic	47 µF 25V
C45	YWT316B104MT	Ceramic	0.1 µF
C46	ECEV1AAN330P	Electrolytic	33 µF 10V
C47	YF400150CHJT	Ceramic	15 pF
C48	ECEV1EG470P	Electrolytic	47 µF 25V
C49	YWT316B104MT	Ceramic	0.1 µF
C50	YF400150CHJT	Ceramic	15 pF
C51	ECEV1AAN330P	Electrolytic	33 µF 10V
C52	ECEV1EG470P	Electrolytic	47 µF 25V
C53	YWT316B104MT	Ceramic	0.1 µF
C54	YF400150CHJT	Ceramic	15 pF
C55	ECEV1AAN330P	Electrolytic	33 µF 10V
C56,57	YF400103XKT	Ceramic	0.01 µF
C58	ECEV1AAN330P	Electrolytic	33 µF 10V
C59	YF400150CHJT	Ceramic	15 pF
C60	ECEV1AAN330P	Electrolytic	33 µF 10V
C61	YF400150CHJT	Ceramic	15 pF
C62	ECEV1AAN330P	Electrolytic	33 µF 10V
C63,64	YF400103XKT	Ceramic	0.01 µF
C65	ECEV1AAN330P	Electrolytic	33 µF 10V
C66	YF400150CHJT	Ceramic	15 pF

REF.NO.	PART NO.	DESCRIPTION	
C67	ECEV1AAN330P	Electrolytic	33 µF 10V
C68	YWT316B104MT	Ceramic	0.1 µF
C69	ECEV1EG470P	Electrolytic	47 µF 25V
C70	YWT316B104MT	Ceramic	0.1 µF
C71	ECEV1EG470P	Electrolytic	47 µF 25V
C72	YF400103XKT	Ceramic	0.01 µF
C73	YF400331CHJT	Ceramic	330 pF
C74	YF400103XKT	Ceramic	0.01 µF
C75	YF400331CHJT	Ceramic	330 pF
C76	YWT316B104MT	Ceramic	0.1 µF
C77	ECEV1EG470P	Electrolytic	47 µF 25V
C78	YWT316B104MT	Ceramic	0.1 µF
C79	ECEV1EG470P	Electrolytic	47 µF 25V
C80	YWT316B104MT	Ceramic	0.1 µF
C81	YF400150CHJT	Ceramic	15 pF
C82	ECEV1AAN330P	Electrolytic	33 µF 10V
C83,84	YF400103XKT	Ceramic	0.01 µF
C85	ECEV1AAN330P	Electrolytic	33 µF 10V
C86	YF400150CHJT	Ceramic	15 pF
C87	ECEV1AAN330P	Electrolytic	33 µF 10V
C88	YF400150CHJT	Ceramic	15 pF
C89	ECEV1AAN330P	Electrolytic	33 µF 10V
C90,91	YF400103XKT	Ceramic	0.01 µF
C92	ECEV1AAN330P	Electrolytic	33 µF 10V
C93	YF400150CHJT	Ceramic	15 pF
C94	ECEV1AAN330P	Electrolytic	33 µF 10V
C95	YWT316B104MT	Ceramic	0.1 µF
C96	ECEV1EG470P	Electrolytic	47 µF 25V
C97,98	YWT316B104MT	Ceramic	0.1 µF
C99,100	ECEV1EA101	Electrolytic	100 µF 25V
C101,102	ECEV1EA221	Electrolytic	220 µF 25V
C103-108	YWT316B104MT	Ceramic	0.1 µF
C109,110	ECEV1EG470P	Electrolytic	47 µF 25V
C111,112	YWT316B104MT	Ceramic	0.1 µF
C113,114	ECEV1EA221	Electrolytic	220 µF 25V
C115	TAJC106M016	Electrolytic	10 µF 16V
C116,117	YF400330CHJT	Ceramic	33 pF
C119-121	ECST1CD336	Electrolytic	33 µF 16V
C122	YWT316B104MT	Ceramic	0.1 µF
C123	TAJD336M010	Electrolytic	33 µF 10V
C126,127	ECEV1CA101	Electrolytic	100 µF 16V
C128,129	TAJC106M016	Electrolytic	10 µF 16V
C133	YF400102XKT	Ceramic	1000 pF
C134	YF400151CHJT	Ceramic	150 pF
C135	YWT316B104MT	Ceramic	0.1 µF
C136,137	ECEV1EG470P	Electrolytic	47 µF 25V
C138	YWT316B104MT	Ceramic	0.1 µF
C142	YF400102XKT	Ceramic	1000 pF
C143	YF400151CHJT	Ceramic	150 pF
C144	ECEV1EG470P	Electrolytic	47 µF 25V
C145	YWT316B104MT	Ceramic	0.1 µF
C146	ECEV1EG470P	Electrolytic	47 µF 25V
C147	YWT316B104MT	Ceramic	0.1 µF
C148	ECEV1EG330GP	Electrolytic	33 µF 25V
C150	ECEV1EA101	Electrolytic	100 µF 25V

REF.NO.	PART NO.	DESCRIPTION
C152	ECEV1AAN330P	Electrolytic 33 µF 10V
C153	YF400220CHJT	Ceramic 22 pF
C154	YWT316B104MT	Ceramic 0.1 µF
C155	ECEV1EG470P	Electrolytic 47 µF 25V
C156	YWT316B104MT	Ceramic 0.1 µF
C157	ECEV1EG470P	Electrolytic 47 µF 25V
C158	YF400220CHJT	Ceramic 22 pF
C159	YWT316B104MT	Ceramic 0.1 µF
C160	ECEV1AA221P	Electrolytic 220 µF 10V
C161	YWT316B104MT	Ceramic 0.1 µF
C162	ECEV1AA221P	Electrolytic 220 µF 10V
C163	YF400220CHJT	Ceramic 22 pF
C164	YWT316B104MT	Ceramic 0.1 µF
C165	ECEV1EG470P	Electrolytic 47 µF 25V
C166	ECEV1AAN330P	Electrolytic 33 µF 10V
C167	YWT316B104MT	Ceramic 0.1 µF
C168	ECEV1EG470P	Electrolytic 47 µF 25V
C169	YF400220CHJT	Ceramic 22 pF
C170	YWT316B104MT	Ceramic 0.1 µF
C171	ECEV1AA221P	Electrolytic 220 µF 10V
C172	YWT316B104MT	Ceramic 0.1 µF
C173	ECEV1AA221P	Electrolytic 220 µF 10V
C174	YF400220CHJT	Ceramic 22 pF
C175	YWT316B104MT	Ceramic 0.1 µF
C176	ECEV1EG470P	Electrolytic 47 µF 25V
C177	ECEV1AAN330P	Electrolytic 33 µF 10V
C178	YWT316B104MT	Ceramic 0.1 µF
C179	ECEV1EG470P	Electrolytic 47 µF 25V
C180	YF400220CHJT	Ceramic 22 pF
C181	YWT316B104MT	Ceramic 0.1 µF
C182	ECEV1AA221P	Electrolytic 220 µF 10V
C183	YWT316B104MT	Ceramic 0.1 µF
C184	ECEV1AA221P	Electrolytic 220 µF 10V
C185	YF400220CHJT	Ceramic 22 pF
C186	YWT316B104MT	Ceramic 0.1 µF
C187	ECEV1EG470P	Electrolytic 47 µF 25V
C188	ECEV1AAN330P	Electrolytic 33 µF 10V
C189	YWT316B104MT	Ceramic 0.1 µF
C190	ECEV1EG470P	Electrolytic 47 µF 25V
C191	YF400220CHJT	Ceramic 22 pF
C192	YWT316B104MT	Ceramic 0.1 µF
C193	ECEV1AA221P	Electrolytic 220 µF 10V
C194	YWT316B104MT	Ceramic 0.1 µF
C195	ECEV1AA221P	Electrolytic 220 µF 10V
C196	YF400330CHJT	Ceramic 33 pF
C197,198	YF400101CHJT	Ceramic 100 pF
C199	YF400330CHJT	Ceramic 33 pF
C200	YWT316B104MT	Ceramic 0.1 µF
C201	ECEV1EG470P	Electrolytic 47 µF 25V
C202	YWT316B104MT	Ceramic 0.1 µF
C203	ECEV1EG470P	Electrolytic 47 µF 25V
C204,205	ECEV1AAN100R	Electrolytic 10 µF 10V
C206-215	YF400101CHJT	Ceramic 100 pF
C216	YWT316B104MT	Ceramic 0.1 µF
C217	ECEV1EA101	Electrolytic 100 µF 25V

REF.NO.	PART NO.	DESCRIPTION
C218	TAJA105M016	Electrolytic 1 µF 16V
C219	ECEV1EA101	Electrolytic 100 µF 25V
C220	YWT316B104MT	Ceramic 0.1 µF
C221	YF400101CHJT	Ceramic 100 pF
C223,224	YF400103XKT	Ceramic 0.01 µF
C225	TAJC106M016	Electrolytic 10 µF 16V
C231-234	ECST1CD336	Electrolytic 33 µF 16V
C235	YF400101CHJT	Ceramic 100 pF
C237,238	ECEV1EG330GP	Electrolytic 33 µF 16V
C239	ECEV1EG470P	Electrolytic 47 µF 25V
C240,241	YWT316B104MT	Ceramic 0.1 µF
C242,243	ECEV1EG470P	Electrolytic 47 µF 25V
C244,245	YWT316B104MT	Ceramic 0.1 µF
C246	ECEV1EG470P	Electrolytic 47 µF 25V
C250	YWT316B104MT	Ceramic 0.1 µF
C251,252	ECEV1EG470P	Electrolytic 47 µF 25V
C253	YWT316B104MT	Ceramic 0.1 µF
C254	ECEV1EG470P	Electrolytic 47 µF 25V
C255,256	YWT316B104MT	Ceramic 0.1 µF
C257	ECEV1EG470P	Electrolytic 47 µF 25V
C258-265	YF400330CHJT	Ceramic 33 pF
C266	YWT316B104MT	Ceramic 0.1 µF
C267	ECST1AX106ZR	Electrolytic 10 µF 10V
C268	TAJC106M016	Electrolytic 10 µF 16V
C269	YF400330CHJT	Ceramic 33 pF
C270,271	ECEV1AAN330P	Electrolytic 33 µF 10V
C500	YWT316B104MT	Ceramic 0.1 µF
C501-504	ECCF1H120JC	Ceramic 12 pF 50V
C600-602	ECSF1AE226	Electrolytic 22 µF 10V
L1-3	YWNL32100J	Coil
L4-7	YWBLM21A05PT	Coil
L8,9	YWNL32100J	Coil
L10-27	YWBLM21A05PT	Coil
L29	YWCD75100KC	Coil
L30-39	YWBLM21A05PT	Coil
CN1	YW8817140L	Connector
CN2	YW8817120L	Connector
F1-3	YWSSFC1R2A	Current Fuse 1.2A
E10	YWL3071A05A5	Internal Wire
TP1-25	YWRCT2125TPV	Test- Pin
M65	YWV2HA1206A3	Shield Parts
M66	YWV4RA0121A3	Lever
M67	YWV7SA2083A4	Blank Label L
M68	YWV7SA2084A4	Blank Label S

INPUT BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB13 (RTL)	YWJ1000EKZ2A	Printed Circuit BoardAssy
IC1	YW18CV8AV002	Custom IC
IC3	YWSC7SU04F	IC
IC4,5	MC74HC574AF	IC
IC7,8	MC74HC574AF	IC
IC9	YWM51953BFP	IC
IC11	MC74HC4053F	IC
IC12	YWM5M34050FP	IC
IC14	MC74HC125AF	IC
IC18	YWMC74HC175F	IC
IC19	MC74HC574AF	IC
IC20	YWSC7SU04F	IC
IC21	YWPD65636055	IC
IC22	YFNJM311M	IC
IC23	YWSC7S08F	IC
IC24	YWSC7SU04F	IC
IC25	YWM5M34050FP	IC
IC26	YWH8520CPA02	IC
IC201	NJM2904M	IC
IC202	YWM51271FP	IC
IC203	YWCXD1175AM	IC
IC204	YWSC7SU04F	IC
IC205	YWCXD2105AQ	IC
IC206	YWNJM2235M	IC
IC207	YWNJM2233BM	IC
IC210,211	MC74HC4053F	IC
IC212	YWSC7S08F	IC
IC213	YW78L05UATE2	IC
IC214	YWM51271FP	IC
IC215,216	YWSC7S08F	IC
IC217	YW78L05UATE2	IC
IC218	YWNJM3403AM	IC
IC219	NJM2904M	IC
IC220-222	YWNJM2235M	IC
IC223	YWCXA1211M	IC
IC224	YWM62352GP	IC
IC226	YWCXD1175AM	IC
IC227	MC74HC574AF	IC
IC229	YWCXD1175AM	IC
IC230	MC74HC574AF	IC
IC231	79L05UATE2	IC
IC232	YW78L05UATE2	IC
IC233	YWNJM3403AM	IC
IC234	MC74HC4053F	IC
IC235	YWCXD1175AM	IC
IC236,237	YWMC74AC157M	IC
IC238	YWSC7SU04F	IC
IC239	YWMC74AC08M	IC
IC240,241	MC74HC573AF	IC
IC242,243	YW78L05UATE2	IC
IC244	YWNJM2246M	IC
IC245	YW78L05UATE2	IC
Q1	MSB709-QRS	Transistor
Q2	2SK198-Q	Transistor
Q3	MSB709-QRS	Transistor
Q4,5	MSD601-QRS	Transistor
Q6	MSB709-QRS	Transistor
Q201	MSD601-QRS	Transistor
Q202	MSB709-QRS	Transistor
Q203-205	MSD601-QRS	Transistor
Q206	MSB709-QRS	Transistor
Q207-213	MSD601-QRS	Transistor
Q214	MSB709-QRS	Transistor
Q215	MSD601-QRS	Transistor
Q216	MSB709-QRS	Transistor
Q217	MSD601-QRS	Transistor
Q218	MSB709-QRS	Transistor
Q219	MSD601-QRS	Transistor
Q220	MSB709-QRS	Transistor
Q221	MSD601-QRS	Transistor
Q222-225	MSB709-QRS	Transistor
Q226-254	MSD601-QRS	Transistor
Q255	MSB709-QRS	Transistor
Q256-259	MSD601-QRS	Transistor
Q260	2SD1328-RS	Transistor
Q261,262	MSD601-QRS	Transistor
Q263	MSB709-QRS	Transistor
Q264-267	MSD601-QRS	Transistor
Q268	2SD1328-RS	Transistor
Q269,270	MSD601-QRS	Transistor
Q271	MSB709-QRS	Transistor
Q272-274	MSD601-QRS	Transistor
Q275	MSB709-QRS	Transistor
Q276	2SD1328-RS	Transistor
Q277	MSD601-QRS	Transistor
Q281-289	MSD601-QRS	Transistor
Q290-294	MSB709-QRS	Transistor
TH1	YWLP16332G54	Thermistor
D1,2	1SV153	Diode
D201	YWDAN212K	Diode
D202-214	YWSML210VT	LED
R8-11	YF2116101JT	Carbon 100 ohms 1/10W
R13	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R14	ERJ6GEYJ472	Carbon 4.7K ohms 1/16W
R15,17	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R18-21	YF2116101JT	Carbon 100 ohms 1/10W
R24	YF2116101JT	Carbon 100 ohms 1/10W
R27,28	YF2116101JT	Carbon 100 ohms 1/10W
R29-32	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R33	YF2116101JT	Carbon 100 ohms 1/10W
R34	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R35-37	YF2116101JT	Carbon 100 ohms 1/10W
R38-41	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R42-44	YF2116101JT	Carbon 100 ohms 1/10W
R45	YF2116681JT	Carbon 680 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R46	YF2116121JT	Carbon	120 ohms 1/10W
R47	YF2116681JT	Carbon	680 ohms 1/10W
R48,49	YF2116330JT	Carbon	33 ohms 1/10W
R50,51	2116150JT	Carbon	15 ohms 1/10W
R52	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R53	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R54	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R55,56	YF2116101JT	Carbon	100 ohms 1/10W
R58,59	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R60-63	YF2116101JT	Carbon	100 ohms 1/10W
R64-66	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R67-69	YF2116101JT	Carbon	100 ohms 1/10W
R70	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R71	YF2116101JT	Carbon	100 ohms 1/10W
R72	YF2116752JT	Carbon	7.5K ohms 1/10W
R73	YF2116511JT	Carbon	510 ohms 1/10W
R74	YF2116332JT	Carbon	3.3K ohms 1/10W
R75	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R77,78	YF2116101JT	Carbon	100 ohms 1/10W
R79	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R80	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R81,82	YF2116222GT	Carbon	2.2K ohms 1/10W
R83,84	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R85	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R86	ERJ6GEYJ680	Carbon	68 ohms 1/10W
R87	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R88	YF2116914JT	Carbon	910K ohms 1/10W
R89	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R90	YF2116104JT	Carbon	100K ohms 1/10W
R91	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R92	ERJ6GEYJ473	Carbon	47K ohms 1/10W
R93	YF2116104JT	Carbon	100K ohms 1/10W
R95	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R96,97	YF2116101JT	Carbon	100 ohms 1/10W
R98	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R99,100	YF2116101JT	Carbon	100 ohms 1/10W
R101	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R102	YF2116101JT	Carbon	100 ohms 1/10W
R103-113	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R114,115	YF2116101JT	Carbon	100 ohms 1/10W
R116,117	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R118	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R119	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R120	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R121	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R122	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R123,124	2116150JT	Carbon	15 ohms 1/10W
R125	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R126,127	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R128-131	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R132	ERDS2TJ272	Carbon	2.7K ohms 1/4W
R201	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R202,203	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R204	YF2116332JT	Carbon	3.3K ohms 1/10W
R205	ERJ6GEYJ103	Carbon	10K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R206	YF2116101JT	Carbon	100 ohms 1/10W
R207	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R208	YWR1220P221D	Metal	220 ohms
R210	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R211	YWR1220P202D	Metal	2K ohms
R212	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R213	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R214	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R215	ERJ14YJ470	Carbon	47 ohms 1/4W
R216	YF2116474JT	Carbon	470K ohms 1/10W
R217,218	YWR1220P182D	Metal	1.8K ohms
R219	ERJ6GEYJ911	Carbon	910 ohms 1/10W
R220	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R221	YF2116912GT	Carbon	9.1K ohms 1/10W
R222	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R223	YWR1220P122D	Metal	1.2K ohms
R224	YWR1220P202D	Metal	2K ohms
R225	YWR1220P182D	Metal	1.8K ohms
R226	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R227	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R228	YF2116101JT	Carbon	100 ohms 1/10W
R229,230	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R231	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R232	YF2116433GT	Carbon	43K ohms 1/10W
R233	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R234	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R235	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R236	YF2116754JT	Carbon	750K ohms 1/10W
R237	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R241	YF2116183GT	Carbon	18K ohms 1/10W
R242,243	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R244	YF2116754JT	Carbon	750K ohms 1/10W
R245	ERJ6GEYJ512	Carbon	5.1K ohms 1/10W
R246	YF2116331JT	Carbon	330 ohms 1/10W
R247	YW2116620JT	Carbon	62 ohms 1/10W
R248	YF2116151JT	Carbon	150 ohms 1/10W
R250	YF2116912GT	Carbon	9.1K ohms 1/10W
R252	YF2116273GT	Carbon	27K ohms 1/10W
R253	ERJ6GEYJ392	Carbon	3.9K ohms 1/10W
R254	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R255	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R256	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R258,259	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R261,264	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R265,266	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R268,270	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R271	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R273	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R274,275	YF2116332JT	Carbon	3.3K ohms 1/10W
R276	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R278,279	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R280	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R281	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R282	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R283	ERJ6GEYJ102	Carbon	1K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R284	YF2116474JT	Carbon	470K ohms 1/10W
R285	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R286	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R287,288	YF2116474JT	Carbon	470K ohms 1/10W
R289	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R290	YF2116331JT	Carbon	330 ohms 1/10W
R292,293	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R294	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R295	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R296-298	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R299	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R300,301	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R302,303	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R304,307	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R308-310	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R312	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R313	YF2116753JT	Carbon	75K ohms 1/10W
R314	YF2116122JT	Carbon	1.2K ohms 1/10W
R315	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R316	YF2116753JT	Carbon	75K ohms 1/10W
R317	YF2116122JT	Carbon	1.2K ohms 1/10W
R318	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R319	YF2116753JT	Carbon	75K ohms 1/10W
R320	YF2116122JT	Carbon	1.2K ohms 1/10W
R321	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R322	YF2116753JT	Carbon	75K ohms 1/10W
R323	YF2116122JT	Carbon	1.2K ohms 1/10W
R324	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R325	YF2116753JT	Carbon	75K ohms 1/10W
R326	YF2116122JT	Carbon	1.2K ohms 1/10W
R327	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R328	YF2116753JT	Carbon	75K ohms 1/10W
R329	YF2116122JT	Carbon	1.2K ohms 1/10W
R330	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R331	YF2116753JT	Carbon	75K ohms 1/10W
R332	YF2116122JT	Carbon	1.2K ohms 1/10W
R333	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R334	YF2116753JT	Carbon	75K ohms 1/10W
R335	YF2116122JT	Carbon	1.2K ohms 1/10W
R336	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R337	YF2116753JT	Carbon	75K ohms 1/10W
R338	YF2116122JT	Carbon	1.2K ohms 1/10W
R339	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R340	YF2116753JT	Carbon	75K ohms 1/10W
R341	YF2116122JT	Carbon	1.2K ohms 1/10W
R342	YF2116101JT	Carbon	100 ohms 1/10W
R343	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R344	YF2116104JT	Carbon	100K ohms 1/10W
R345	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R346	YF2116561JT	Carbon	560 ohms 1/10W
R347	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R348	YF2116433GT	Carbon	43K ohms 1/10W
R349	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R350	ERJ14YJ470	Carbon	47 ohms 1/4W
R351	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R352	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R353	YF2116754JT	Carbon	750K ohms 1/10W
R354,358	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R359	ERJ6GEYJ202	Carbon	2K ohms 1/10W
R360	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R361	YF2116754JT	Carbon	750K ohms 1/10W
R362	ERJ6GEYJ512	Carbon	5.1K ohms 1/10W
R363	YW2116620JT	Carbon	62 ohms 1/10W
R364	YF2116151JT	Carbon	150 ohms 1/10W
R365	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R367	YF2116912GT	Carbon	9.1K ohms 1/10W
R369	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R370	YF2116101JT	Carbon	100 ohms 1/10W
R371	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R372	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R373	R1220P681D	Metal	680 ohms
R375	YWR1220P122D	Metal	1.2K ohms
R376	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R377	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R378,379	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R380	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R381	YF2116101JT	Carbon	100 ohms 1/10W
R382	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R383	YWR1220P361D	Metal	360 ohms
R385	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R386	YWR1220P122D	Metal	1.2K ohms
R387	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R388,389	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R390	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R391,393	YF2116912GT	Carbon	9.1K ohms 1/10W
R394	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R395	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R396	YWR1220P362D	Metal	3.6K ohms
R399	YWR1220P512D	Metal	5.1K ohms
R401-403	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R409	YWR1220P122D	Metal	1.2K ohms
R410	YWR1220P202D	Metal	2K ohms
R411	YWR1220P182D	Metal	1.8K ohms
R412	YF2116151JT	Carbon	150 ohms 1/10W
R413	YF2116511JT	Carbon	510 ohms 1/10W
R415	YF2116332JT	Carbon	3.3K ohms 1/10W
R416	YF2116101JT	Carbon	100 ohms 1/10W
R417,418	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R419	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R420	YWR1220P751D	Metal	750 ohms
R422,424	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R426-428	YF2116474JT	Carbon	470K ohms 1/10W
R429-432	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R433	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R434	YF2116101JT	Carbon	100 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R435	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R436	YWR1220P101D	Metal	100 ohms
R438	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R439	YWR1220P202D	Metal	2K ohms
R440	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R441	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R442	YF2116511JT	Carbon	510 ohms 1/10W
R443	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R444	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R445	YF2116821GT	Carbon	820 ohms 1/10W
R446-448	YF2116474JT	Carbon	470K ohms 1/10W
R449-452	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R453	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R454	YF2116101JT	Carbon	100 ohms 1/10W
R455	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R456	YWR1220P101D	Metal	100 ohms
R458	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R459	YWR1220P202D	Metal	2K ohms
R460	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R461	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R462	YF2116511JT	Carbon	510 ohms 1/10W
R463	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R464	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R465	YF2116821GT	Carbon	820 ohms 1/10W
R466-468	YF2116474JT	Carbon	470K ohms 1/10W
R469-472	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R476	YWR1220P272D	Metal	2.7K ohms
R477	YWR1220P102D	Metal	1K ohms
R479	YWR1220P223D	Metal	22K ohms
R480-482	YF2116101JT	Carbon	100 ohms 1/10W
R483	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R484	YF2116101JT	Carbon	100 ohms 1/10W
R485	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R486	YWR1220P221D	Metal	220 ohms
R488	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R489	YWR1220P102D	Metal	1K ohms
R490	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R491	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R492	YF2116511JT	Carbon	510 ohms 1/10W
R493	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R494	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R495	YF2116511JT	Carbon	510 ohms 1/10W
R496,498	YF2116101JT	Carbon	100 ohms 1/10W
R499-506	YF2116101JT	Carbon	100 ohms 1/10W
R510-543	YF2116101JT	Carbon	100 ohms 1/10W
R544-546	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R547-556	YF2116101JT	Carbon	100 ohms 1/10W
R557	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R558	ERJ14YJ470	Carbon	47 ohms 1/4W
R559	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R560	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R561	YF2116101JT	Carbon	100 ohms 1/10W
R562	YF2116331JT	Carbon	330 ohms 1/10W
R563,564	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R565	ERJ6GEYJ103	Carbon	10K ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION	
R566,567	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R568	YF2116912GT	Carbon	9.1K ohms 1/10W
R569	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R570	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R571	YF2116101JT	Carbon	100 ohms 1/10W
R572	YF2116471JT	Carbon	470 ohms 1/10W
R573,574	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R575	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R576,577	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R578-583	YF2116101JT	Carbon	100 ohms 1/10W
R584	YWR1220P362D	Metal	3.6K ohms
R587	YWR1220P512D	Metal	5.1K ohms
R588,589	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R594-610	YF2116101JT	Carbon	100 ohms 1/10W
R611,614	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R615	ERJ6GEY0R00	Carbon	0 ohms 1/10W
R617	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R618-630	ERJ6GEYJ391	Carbon	390 ohms 1/10W
R631-634	L311J103J332	Carbon	10K ohms
R635	ERJ6GEYJ512	Carbon	5.1K ohms 1/10W
R636	YF2116222GT	Carbon	2.2K ohms 1/10W
R637	ERJ6GEYJ332	Carbon	3.3K ohms 1/10W
R638	YF2116331JT	Carbon	330 ohms 1/10W
R639	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R640	YF2116511JT	Carbon	510 ohms 1/10W
R641,642	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R643	YWR1220P162D	Metal	1.6K ohms
R644	YWR1220P332D	Metal	3.3K ohms
R645,646	YWR1220P103D	Metal	10K ohms
R647	YFR1220P392D	Metal	3.9K ohms
R648	YF2116474JT	Carbon	470K ohms 1/10W
R649	YF2116101JT	Carbon	100 ohms 1/10W
R650	YWR1220P102D	Metal	1K ohms
R651-661	YF2116101JT	Carbon	100 ohms 1/10W
R662,663	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R664	YF2116474JT	Carbon	470K ohms 1/10W
R665	YF2116101JT	Carbon	100 ohms 1/10W
R666	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R670,671	ERDS2FJ101	Carbon	100 ohms 1/4W
R672	ERDS2TJ470	Carbon	47 ohms 1/4W
R673	ERDS2TJ151	Carbon	150 ohms 1/4W
VR201	EVM1DSW30BY2	Variable Resistor	
VR202	EVM1DSW30B54	Variable Resistor	50K ohms
VR203	EVM1DGA00B24	Variable Resistor	20K ohms
VR204	EVM1DSW30B34	Variable Resistor	30K ohms
VR205	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR207,208	EVM1DSW30B54	Variable Resistor	50K ohms
VR209	EVM1DSW30B34	Variable Resistor	30K ohms
VR210	EVM1DSW30BE2	Variable Resistor	2.2K ohms
VR211	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR216-218	EVM1DSW30BY2	Variable Resistor	
VR219	EVM1DSW30BE3	Variable Resistor	2.2K ohms
VR220	EVM1DSW30BQ3	Variable Resistor	4.7K ohms
VR221	EVM1DSW30BY2	Variable Resistor	
VR222,224	EVM1DSW30BQ3	Variable Resistor	4.7K ohms

REF.NO.	PART NO.	DESCRIPTION
VR225	EVM1DSW30BQ3	Variable Resistor 4.7K ohms
Z1-17	EXBV8V101J	Block Resistor
Z18,19	EXBV8V103J	Block Resistor
Z20-25	EXBV8V101J	Block Resistor
Z26,27	EXBV8V103J	Block Resistor
Z28-31	EXBV8V101J	Block Resistor
Z32-35	EXBV8V103J	Block Resistor
C1	ECEV1CA101	Electrolytic 100 µF 16V
C2,3	YWT316B104MT	Ceramic 0.1 µF
C4,5	ECEV1CA101	Electrolytic 100 µF 16V
C6,7	YWT316B104MT	Ceramic 0.1 µF
C8	ECEV1CA101	Electrolytic 100 µF 16V
C9-20	YF400220CHJT	Ceramic 22 pF
C21	ECEV1CG470GP	Electrolytic 47 µF 16V
C22,24	YWT316B104MT	Ceramic 0.1 µF
C25,26	YWT316B104MT	Ceramic 0.1 µF
C27,28	YF400220CHJT	Ceramic 22 pF
C30-45	YF400220CHJT	Ceramic 22 pF
C46,47	YWT316B104MT	Ceramic 0.1 µF
C48	ECEV1CG470GP	Electrolytic 47 µF 16V
C49,50	ECEV1AA221P	Electrolytic 220 µF 10V
C51	YWT316B224MT	Ceramic 0.1 µF
C52,53	YF400030CHDT	Ceramic 3 pF
C54-56	YWT316B104MT	Ceramic 0.1 µF
C57,58	ECEV1CG470GP	Electrolytic 47 µF 16V
C59	YWT316B104MT	Ceramic 0.1 µF
C60	ECEV1CG470GP	Electrolytic 47 µF 16V
C61	YWT316B104MT	Ceramic 0.1 µF
C62-85	YF400220CHJT	Ceramic 22 pF
C86	ECEV1CG470GP	Electrolytic 47 µF 16V
C88	YWT316B104MT	Ceramic 0.1 µF
C89-91	YF400101CHJT	Ceramic 100 pF
C92	YWT316B104MT	Ceramic 0.1 µF
C93	ECEV1CG470GP	Electrolytic 47 µF 16V
C94	ECEV1HG2R2GR	Electrolytic 2.2 µF 50V
C95	YF400332XKT	Ceramic 3300 pF
C96	YF400122XKT	Ceramic 1200 pF
C97	YF400200CHJT	Ceramic 20 pF
C98-100	YWT316B104MT	Ceramic 0.1 µF
C101	YF400101CHJT	Ceramic 100 pF
C102	ECEV1CA101	Electrolytic 100 µF 16V
C103	YWT316B104MT	Ceramic 0.1 µF
C104	ECEV1CG100GR	Electrolytic 10 µF 16V
C105	YWT316B104MT	Ceramic 0.1 µF
C106-108	YF400220CHJT	Ceramic 22 pF
C109-111	YWT316B104MT	Ceramic 0.1 µF
C112-118	YF400220CHJT	Ceramic 22 pF
C201	ECEV1EA101	Electrolytic 100 µF 25V
C202,203	YWT316B104MT	Ceramic 0.1 µF
C204	ECEV1EA101	Electrolytic 100 µF 25V
C205	ECEV1CG470GP	Electrolytic 47 µF 16V
C206	ECEV1EG470P	Electrolytic 47 µF 25V
C207	ECEV1CG470GP	Electrolytic 47 µF 16V
C208	YF400101CHJT	Ceramic 100 pF
C209	ECEA1EGE471	Electrolytic 470 µF 25V
C210	ECEV1CA101	Electrolytic 100 µF 16V
C211	ECEV1EG4R7GR	Electrolytic 4.7 µF 25V
C212	ECEV0JG470GP	Electrolytic 47 µF 6.3V
C213	ECEV1CA101	Electrolytic 100 µF 16V
C214	ECEV1CG470GP	Electrolytic 47 µF 16V
C215,216	YF400333XKT	Ceramic 0.033 µF
C217	YWT316B104MT	Ceramic 0.1 µF
C218,219	ECEV0JG330GP	Electrolytic 33 µF 6.3V
C220	ECST1AX106ZR	ETantalum 10 µF 10V
C221	YWT316B104MT	Ceramic 0.1 µF
C222	ECST1AX106ZR	ETantalum 10 µF 10V
C223	YWT316B104MT	Ceramic 0.1 µF
C224	YF400333XKT	Ceramic 0.033 µF
C225	YF400680CHJT	Ceramic 68 pF
C226	YF400333XKT	Ceramic 0.033 µF
C227	YF400102XKT	Ceramic 1000 pF
C228	YF400181CHJT	Ceramic 180 pF
C229	ECEV1HG010GR	Electrolytic 1 µF 50V
C230	ECEV1HGR47GR	Electrolytic 47 µF 50V
C231	ECEV1HG010GR	Electrolytic 1 µF 50V
C232	YF400201CHJT	Ceramic 200 pF
C233,234	YW400473XK	Ceramic 0.1 µF
C235	YF400102XKT	Ceramic 1000 pF
C236	YWT316B104MT	Ceramic 0.1 µF
C237	ECEV1EG4R7GR	Electrolytic 4.7µF 25V
C238	YF400102XKT	Ceramic 1000 pF
C239	YWT316B104MT	Ceramic 0.1 µF
C240	ECEV1HG010GR	Electrolytic 1 µF 50V
C241	YWT316B104MT	Ceramic 0.1 µF
C242	ECEV0JG470GP	Electrolytic 47 µF 6.3V
C243	YWT316B104MT	Ceramic 0.1 µF
C244	ECEV1HG010GR	Electrolytic 1 µF 50V
C246	YW400080CHD	Ceramic 8 pF
C247	YWT316B104MT	Ceramic 0.1 µF
C248	YF400222XKT	Ceramic 2200 pF
C249	YF400050CHDT	Ceramic 5 pF
C250	YF400561CHJT	Ceramic 560pF
C251	TAJC106M016	Tantalum 10 µF 16V
C252	YWT316B104MT	Ceramic 0.1 µF
C253	TAJC106M016	Tantalum 10 µF 16V
C254,255	YWT316B104MT	Ceramic 0.1 µF
C256	YF400050CHDT	Ceramic 5 pH
C257	YF400150CHJT	Ceramic 15 pF
C258	YF400102XKT	Ceramic 1000 pF
C259	YWT316B104MT	Ceramic 0.1 µF
C260,261	ECST1AX106ZR	Tantalum 10 µF 10V
C262-271	YWT316B104MT	Ceramic 0.1 µF
C272,273	ECST1AX106ZR	Tantalum 10 µF 10V
C274	YWT316B104MT	Ceramic 0.1 µF
C275	ECEV1CA101	Electrolytic 100 µF 16V
C276,277	ECEV1CG470GP	Electrolytic 47 µF 16V
C278-280	ECEV1CG100NP	Electrolytic 10 µF 16V
C281,282	YF400103XKT	Ceramic 0.01 µF
C283	YWT316B104MT	Ceramic 0.1 µF
C284	ECST1AX106ZR	Tantalum 10 µF 10V

REF.NO.	PART NO.	DESCRIPTION	
C285	YWT316B104MT	Ceramic	0.1 μF
C286	ECST1AX106ZR	Tantalum	10 μF 10V
C287,288	ECEV1CG470GP	Electrolytic	47 μF 16V
C293,294	ECEV1CA101	Electrolytic	100 μF 16V
C295	YWT316B104MT	Ceramic	0.1 μF
C296-298	ECEV1CA101	Electrolytic	100 μF 16V
C299,300	YF400103XKT	Ceramic	0.01 μF
C301-304	ECEV1CA101	Electrolytic	100 μF 16V
C305	YF400220CHJT	Ceramic	22 pF
C306	YF400103XKT	Ceramic	0.01 μF
C307	YWT316B104MT	Ceramic	0.1 μF
C308	YF400101CHJT	Ceramic	100 pF
C309,310	ECEV1HG010GR	Electrolytic	1 μF 50V
C311	ECEV1HGR47GR	Electrolytic	47 μF 50V
C312,313	YW400473XK	Ceramic	0.047 μF
C314	YF400102XKT	Ceramic	1000 pF
C315	ECST1ED106ZR	Electrolytic	10 μF 25V
C316,317	YWT316B104MT	Ceramic	0.1 μF
C318	ECST1ED106ZR	Electrolytic	10 μF 25V
C319	YWT316B104MT	Ceramic	0.1 μF
C320	YW400102CHJT	Ceramic	1000pF
C321	YWT316B104MT	Ceramic	0.1 μF
C322	ECEV1EG4R7GR	Electrolytic	4.7 μF 25V
C323	YF400102XKT	Ceramic	1000 pF
C324	YWT316B104MT	Ceramic	0.1 μF
C325	ECEV1HG010GR	Electrolytic	1 μF 50V
C326	YWT316B104MT	Ceramic	0.1 μF
C327	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C328	YWT316B104MT	Ceramic	0.1 μF
C329	ECEV1HG010GR	Electrolytic	1 μF 50V
C331	YW400080CHD	Ceramic	8 pF
C332	YWT316B104MT	Ceramic	0.1 μF
C333	YF400050CHDT	Ceramic	5 pF
C334	YF400561CHJT	Ceramic	560 pF
C335	YF400102XKT	Ceramic	1000 pF
C337	ECEV1CA101	Electrolytic	100 μF 16V
C338	ECEV1CG470GP	Electrolytic	47 μF 16V
C339	ECEV1CA101	Electrolytic	100 μF 16V
C340	ECEA1EGE471	Electrolytic	470μF 25V
C341	YW400161CHJT	Ceramic	160 pF
C342	YWT316B104MT	Ceramic	0.1 μF
C343	YF400220CHJT	Ceramic	22 pF
C344	ECEV1CG470GP	Electrolytic	47 μF 16V
C345	ECEV1CA101	Electrolytic	100 μF 16V
C346	ECEV1CG470GP	Electrolytic	47 μF 16V
C347	ECST1ED106ZR	Electrolytic	10 μF 25V
C348,349	YWT316B104MT	Ceramic	0.1 μF
C350	ECST1ED106ZR	Electrolytic	10 μF 25V
C351	ECEV1CG470GP	Electrolytic	47 μF 16V
C352	ECEA1EGE471	Electrolytic	470μF 25V
C353,354	YF400103XKT	Ceramic	0.01 μF
C355	YWT316B104MT	Ceramic	0.1 μF
C357	YF400103XKT	Ceramic	0.01 μF
C359,360	YF400333XKT	Ceramic	0.033 μF
C361	ECEV1CA101	Electrolytic	100 μF 16V

REF.NO.	PART NO.	DESCRIPTION	
C362	YWT316B104MT	Ceramic	0.1 μF
C363,364	ECEV0JG330GP	Electrolytic	33 μF 6.3V
C365-367	ECEV1CG100NP	Electrolytic	10 μF 16V
C368	YWT316B104MT	Ceramic	0.1 μF
C369	ECEV1CG470GP	Electrolytic	47 μF 16V
C371	ECEV1CA101	Electrolytic	100 μF 16V
C372	YF400680CHJT	Ceramic	68 pF
C373	ECST1VX225ZR	Electrolytic	2.2 μF 35V
C374	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C375	YF400102XKT	Ceramic	1000 pF
C376-378	ECEV1CG100NP	Electrolytic	10 μF 16V
C379	YWT316B104MT	Ceramic	0.1 μF
C380	ECEV1CG470GP	Electrolytic	47 μF 16V
C382	ECEV1CA101	Electrolytic	100 μF 16V
C383	YF400680CHJT	Ceramic	68 pF
C384	ECST1VX225ZR	Electrolytic	2.2 μF 35V
C385	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C386	YF400102XKT	Ceramic	1000 pF
C387-389	ECEV1CG100NP	Electrolytic	10 μF 16V
C390	YWT316B104MT	Ceramic	0.1 μF
C391	ECEV0JAN470P	Electrolytic	47 μF 6.3V
C393	ECEV1CG470GP	Electrolytic	47 μF 16V
C394	YWT316B104MT	Ceramic	0.1 μF
C395	YF400330CHJT	Ceramic	33 pF
C396	ECEV1AA330P	Electrolytic	33 μF 10V
C397-405	YF400330CHJT	Ceramic	33 pF
C411	YF400680CHJT	Ceramic	68 pF
C412	ECEV1CA101	Electrolytic	100 μF 16V
C413	YF400680CHJT	Ceramic	68 pF
C414	ECST1VX105ZR	Tantalum	1 μF 35V
C415	ECEV0JG470GP	Electrolytic	47 μF 6.3V
C416	YF400102XKT	Ceramic	1000 pF
C418	ECST1AX106ZR	Tantalum	10 μF 10V
C419	YWT316B104MT	Ceramic	0.1 μF
C420	ECST1AX106ZR	Tantalum	10 μF 10V
C421	YWT316B104MT	Ceramic	0.1 μF
C422	YF400333XKT	Ceramic	0.033 μF
C423	YF400101CHJT	Ceramic	100 pF
C424	YF400333XKT	Ceramic	0.033 μF
C425	ECEV1CG100GR	Electrolytic	10 μF 10V
C426	YWT316B104MT	Ceramic	0.1 μF
C427-434	YF400220CHJT	Ceramic	22 pF
C440	ECST1AX106ZR	Tantalum	10 μF 10V
C441	YWT316B104MT	Ceramic	0.1 μF
C442	ECST1AX106ZR	Tantalum	10 μF 10V
C443	YWT316B104MT	Ceramic	0.1 μF
C444	YF400333XKT	Ceramic	0.033 μF
C445	YF400101CHJT	Ceramic	100 pF
C446	YF400333XKT	Ceramic	0.033 μF
C447	YWT316B104MT	Ceramic	0.1 μF
C448-459	YF400220CHJT	Ceramic	22 pF
C460	ECEV1CG470GP	Electrolytic	47 μF 16V
C461,462	YWT316B104MT	Ceramic	0.1 μF
C463	ECEV1EG470P	Electrolytic	47 μF 25V
C464	YWT316B104MT	Ceramic	0.1 μF

REF.NO.	PART NO.	DESCRIPTION	
C465	ECEV1CG470GP	Electrolytic	47 µF 16V
C466-469	ECEV1CA101	Electrolytic	100 µF 16V
C472,473	YWT316B104MT	Ceramic	0.1 µF
C474	ECEV1CG470GP	Electrolytic	47 µF 16V
C475	ECEV1EA101	Electrolytic	100 µF 25V
C476	YF400330CHJT	Ceramic	33 pF
C477	ECEV1CA101	Electrolytic	100 µF 16V
C478	ECEV1CG470GP	Electrolytic	47 µF 16V
C479	YF400560CHJT	Ceramic	56 pF
C480	ECEV1CA101	Electrolytic	100 µF 16V
C481,482	YF400103XKT	Ceramic	0.01 µF
C483,485	YWT316B104MT	Ceramic	0.1 µF
C486	ECST1AX106ZR	Tantalum	10 µF 10V
C487	YWT316B104MT	Ceramic	0.1 µF
C488	ECST1AX106ZR	Tantalum	10 µF 10V
C489	YWT316B104MT	Ceramic	0.1 µF
C490	YF400333XKT	Ceramic	0.033 µF
C491	YF400101CHJT	Ceramic	100 pF
C492	YF400333XKT	Ceramic	0.033 µF
C493-498	YWT316B104MT	Ceramic	0.1 µF
C499	YF400330CHJT	Ceramic	33 pF
C500	ECEV1CG470GP	Electrolytic	47 µF 16V
C501,502	YWT316B104MT	Ceramic	0.1 µF
C503,504	ECEV1CG470GP	Electrolytic	47 µF 16V
C505,506	YWT316B104MT	Ceramic	0.1 µF
C507	ECEV1CG470GP	Electrolytic	47 µF 16V
C508,509	YF400180CHJT	Ceramic	18 pF
C510	YF400330CHJT	Ceramic	33 pF
C511	YF400270CHJT	Ceramic	27 pF
C512	YF400050CHDT	Ceramic	5 pF
C513	ECST1ED106ZR	Electrolytic	10 µF 25V
C514	YWT316B104MT	Ceramic	0.1 µF
C515,516	ECEV0JAN470P	Electrolytic	47 µF 6.3V
C517-520	YF400104FZT	Ceramic	0.1 µF
C521	YWT316B104MT	Ceramic	0.1 µF
C522	TAJD336M010	Electrolytic	33 µF 10V
C523	ECST1ED106ZR	Electrolytic	10 µF 25V
C524,525	ECST1AX106ZR	Tantalum	10 µF 10V
C526	YF400104FZT	Ceramic	0.1 µF
C527	ECST1ED106ZR	Electrolytic	10 µF 25V
C528,529	YWT316B104MT	Ceramic	0.1 µF
C530	ECST1ED106ZR	Electrolytic	10 µF 25V
CT201,202	YWTZBX4Z6AAT	Trimmer Capacitor	
L1,2	YWCD75100KC	Coil	10 µH
L3-9	ELJFA1R0KF	Coil	1 µH
L10	YW5115JPS062	Coil	µH
L201	YWCD75100KC	Coil	10 µH
L202-204	ELJFA1R0KF	Coil	1 µH
L205	ELJFA8R2KB	Coil	8.2 µH
L206	ELJFA150KF	Coil	15 µH
L207	ELJFA5R6KF	Coil	5.6 µH
L208,210	ELJFA1R0KF	Coil	1 µH
L211-224	ELJFA1R0KF	Coil	1 µH
L225	ELJFA101KB	Coil	100 µH
L226	ELJFA330KF	Coil	33 µH

REF.NO.	PART NO.	DESCRIPTION	
L227	ELJFA470KF	Coil	47 µH
L228	ELJFA1R0KF	Coil	1 µH
L230,231	ELJFA101KB	Coil	100µH
X1	YWCSACS1966T	Crystal Oscillator	
X201,202	YWDX17R734	Crystal Oscillator	
CF201	YWCY4W057	Filter	
CF202	YWCY4W058	Filter	
CF203	YWCY4W057	Filter	
CF204	YWCY4W058	Filter	
CF205	YW2570JPS094	LC Filter	
CF206	YWCY4W057	Filter	
CF207	YWCY4W058	Filter	
CF208	YW2570JPS094	LC Filter	
CF209,210	YWCY4T058	Filter	
CF211	YW2567JPS026	LC Filter	
CF212	YW2570JPS057	LC Filter	
CN1	YW8817140L	Connector	
CN2	YW8817120L	Connector	
SF1,2	YWSSFC1R2A	Current Fuse	1.2A
SF201,202	YWSSFC1R2A	Current Fuse	1.2A
CN10	YWPCC08068	Socket	
E	YWMX1000A3	Wire Assy	
E10	YWL3071A06A5	Internal Wire	
TP1,201	YWRCT2125TPV	Test- Pin	
TP202-213	YWRCT2125TPV	Test- Pin	
M65	YWV2HA1206A3	Shield Parts	
M66	YWV4RA0121A3	Lever	
M67	YWV7SA2083A4	Blank Label L	
M68	YWV7SA2084A4	Blank Label S	

INTERFACE BOARD

PCB14 (RTL)	YWJ1000PKY1A	Printed Circuit Board Assy	
IC1,2	MC74HC541AF	IC	
IC3	MC74HC245AF	IC	
IC4	YW18CV8AV005	Custom IC	
IC5	MC74HC245AF	IC	
R1-5	YF2116101JT	Carbon	100 ohms 1/10W
R6,7	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R8	YF2116100JT	Carbon	10 ohms 1/10W
R9	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
Z1-7	EXBV8V101J	Block Resistor	
C1	YWT316B104MT	Ceramic	0.1 µF
C2	TAJC106M016	Electrolytic	10 µF 16V
C3	YWT316B104MT	Ceramic	0.1 µF
C4,5	TAJC106M016	Electrolytic	10 µF 16V
C6	YWT316B104MT	Ceramic	0.1 µF
C7	ECST1CD226	Tantalum	22 µF 16V
C8-20	YF400330CHJT	Ceramic	33 pF
L1,2	YWNL32100J	Coil	
BZ1	EFBCD37C11	Buzzer	
CN1	YWF794P040LA	40-pin Connector	
CN4	YW937098041	98-pin Connector	
CN6	YWF724P02AUW	2-pin Connector	

LED BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB15 (RTL)	YWJ1000PKY2A	Printed Circuit Board Assy
D1	YWSLR56VC3F	L E D
CN1	YW530150210	Connector
M50	YWLF10	Spacer

POWERSWITCH BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB16 (RTL)	YWV0EA0356AN	Extention Board Assy
SW1	YWSDDFA33B1	Push Switch
CN1	YWB4P7SVH	7-pin Connector

CPU BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB17 (RTL)	YW66G8946	Printed Circuit Board Assy

Note; This board is supplied as PCB Assy only

EXTENTION BOARD

REF.NO.	PART NO.	DESCRIPTION
	YWV0EA0356AN	Extention Board Assy

ACCESSORY PARTS/PACKAGING PARTS

REF.NO.	PART NO.	DESCRIPTION
E101	YWCAJ0G9P	9-pin Connector Cable
E102	YWCAKB6P	6-pin Extention Cable
E103	YWKP610KS31A	AC Power Cord
M130	YWV9CC2428AN	Packaging Assy for Main Unit
M131	YWT80X90X1	Polyethylene Bag for Main Unit
M134	YWV8MA0502A2	Owner's Card
M135	XZB26X40C05	Polyethylene Bag for WJ-MX1000/B
	YWPE26X40C05	Polyethylene Bag for WJ-MX1000/G
M136	YWV8QA3527AN	Operating Instructions
M137	YWV8QA3528AN	Operating Instructions for Window
M138	YWV8QA3529AN	Operating Instructions for MS-DOS
M139	YWV8FA0200A4	Packaging Label for WJ-MX1000K/B
M140	YWV9CB2479AN	Packaging Assy for WJ-MX1000K

JOG PAD YWJP1000EU01

MISCELLANEOUS

REF.NO.	PART NO.	DESCRIPTION
VR101	YWCRV1652	Control Resistor
M1	YWV5EA1404A1	Upper Cover
M2	YWV5EA1405A1	Bottom Cover
M3	YWV2DA0019A3	Weight
M5	YWV5RA0440A3	Jog Dial Knob A
M6	YWV5RA0441A3	Jog Dial Knob B
M7	YWV2VA0062A4	Barrier
M8	YWV5RA0439A4	Positioner Knob
M12	YWV5LA0036B4	Rubber Foot
M15	YWV7QA3555A4	Main Label
M17	YWV2KA0927A4	Chassis
M18	YWV1KA0184A4	Washer
M19	YWV4HA0213A4	Shaft
M20	YWV4EA0060A3	Gear
M21	YWV4RA0127A4	Lever
M22	YWV2KA0928A4	Chassis for Fader
M23	YWV5RA0447A4	Knob
M24	YWV4JA0503A4	Spring
M25	YWV4EA0061A4	Gear
M26	YWV5JA0094A3	Fader Grip A
M27	YWV5JA0095A3	Fader Grip B
M29	YWV2FA0701C4	Cushion
M30	YWV5RA0442A3	Push Knob
M31	YWV5RA0443A3	Knob
M32	YWV5RA0444A2	Knob
M33	YWV5RA0445A2	Knob

MAIN BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB1 (RTL)	YWJJP10EKB1A	Printed Circuit Board Assy
IC2	YWSC7S32FER	IC
IC4	YWM51953BFP	IC
IC5	YWM66010FP	IC
IC6	NJM2903M	IC
IC7	YWSNHC191NS	IC
IC8	YWSC7S00F	IC
IC9	YWUPD7004C	IC
IC10,11	YWSC7SU04F	IC
IC12	79L05UATE2	IC
Q1	MSB709-QRS	Transistor
R1-4	YF2116331JT	Carbon 330 ohms 1/10W
R5	YF2116101JT	Carbon 100 ohms 1/10W
R6	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R7	YF2116101JT	Carbon 100 ohms 1/10W

REF.NO.	PART NO.	DESCRIPTION
CN11	YW530950510	5-pin Connector
TP2,3	YWRCS3216TPV	Test- Pin
M9	YWA2SA2006A4	Mounting Angle
M13	YWV2HA1216A4	Shield Cover

REAR BOARD

REF.NO.	PART NO.	DESCRIPTION
PCB2 (RTL)	YWJJP10PKC1A	Printed Circuit Board Assy
CN8,9	YW520840510	5-pin Connector
CN10	YWJES9S3A3G	9-pin Connector
CN12	YW520840510	5-pin Connector
M10	YWV5WA1689A4	Connector Panel
M11	YWSFS26SB1WM	Special Screw

ACCESSORY PARTS/PACKAGING PARTS

REF.NO.	PART NO.	DESCRIPTION
M45	XZB45X63C05	Polyethylene Bag for WJ-MX1000/B
	YWPE45X63C05	Polyethylene Bag for WJ-MX1000/G
M50	YWV9CC2464AN	Packaging Assy

MOUSE WJ-MU1000E

ACCESSORY PARTS/PACKAGING PARTS

REF.NO.	PART NO.	DESCRIPTION
M1	YWV7QA3545A4	Main Label
M2	YWV8QA3486AN	Operating Instructions
M3	YWT15X20C03	Polyethylene Bag
M6	YWV8FA0206A4	Packaging Label
M7	YWV8FA0140A4	Packaging Label

KEY BOARD WJ-KB1000E

ACCESSORY PARTS/PACKAGING PARTS

REF.NO.	PART NO.	DESCRIPTION
M1	YWV7QA3547A4	Main Label
M2	YWV8QA3487AN	Operating Instructions
M3	YWPE45X63C05	Polyethylene Bag
M4	YWV7SA2116A4	Panasonic Label
M6	YWV8FA0203A4	Packaging Label
M7	YWV8FA0140A4	Packaging Label

Printed in Japan
C-547 Ⓝ 5,7,12,23

ORDER NO. BSD9810047C8

Service Manual

Nonlinear Workstation Main Kit
WJ-MX1200AK

Simplified

V25359

Please file and use this manual together with the service manual for the Model No. WJ-MX1000K, WJ-MX1200K and WJ-PB1003, Order No.9511066C8, BSD9709018A8, BSD9709018A8 and BSD9708013C8 (This Replacement Parts List describes difference from the Original Service Manual).

V20640

526

REPLACEMENT PARTS LIST

REF NO.	PART NO.	PART NO.
	MISCELLANEOUS	
BI10	MX120AA12	Wire Assy for I/F Board CN17 and Mother Board CN17
BI11	MX120AA14	Wire Assy for CPU Board J7
M1	YWV9AC2172AN	Front Panel
M20	1A1A165A	Rear Panel
M28	7Z1A018A	Main Label
M51	YW0E1A008A	HDD (2.1GB)
M70	V7SA3046B3	Label
M71	AST1016	Shield Parts
M75	440712-5209N	Fan Angle for CPU
	POWER BOARD	
F2	SSFR4AF002	Current Fuse 4.0A

REF NO.	PART NO.	PART NO.
	CPU BOARD	
PCB15 (RTL)	P5TX-LA	Printed Circuit Board Assy
IC1	YWFV80503200	IC (Pentium (200MHz)
PCB16 (RTL)	YWEYQ51A001	DIMM Memory
	ACCESSORY PARTS / PACKGING PARTS	
M136	7J1A125A	Operating Instructions
M130	YWV9CJ3372AN	Packaging Assy for Main Kit
M140	YWV9CF3373AN	Packaging Assy for WJ-MX1200AK

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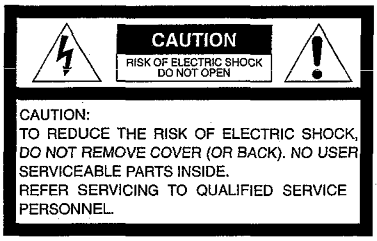
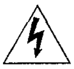
⚠ WARNING

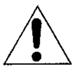
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

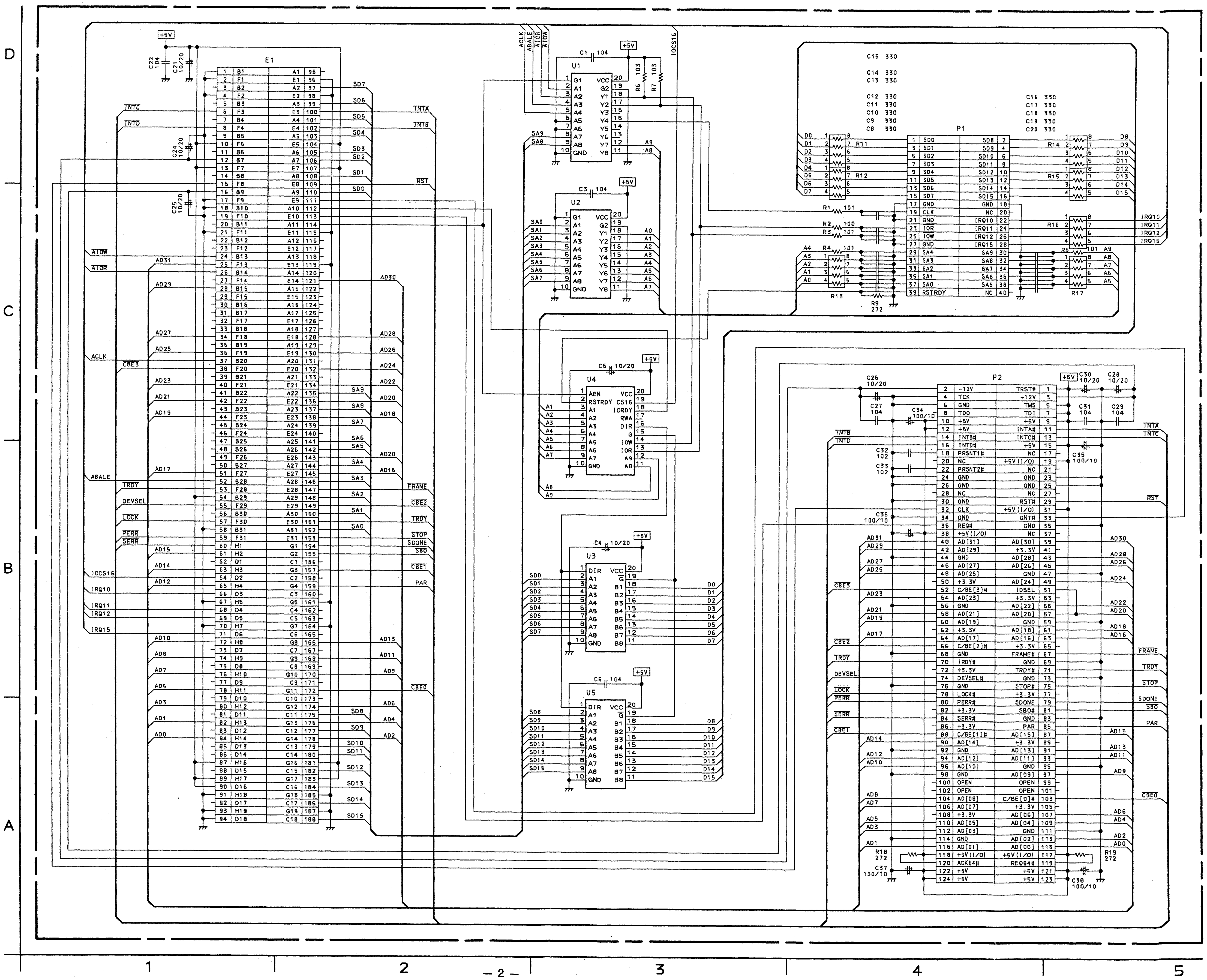
IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

REF NO.	PART NO.	PART NO.	
	I/F BOARD		
PCB6 (RTL)	J120APKY1A	Printed Circuit Board	
IC1,2	MC74HC541AF	IC	
IC3	MC74HC245AF	IC	
IC4	YW18CV8AV05A	Custom IC	
IC5	MC74HC245AF	IC	
R1	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R2	ERJ3GEYJ100	Carbon	10 ohms 1/16W
R3-5	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R6,7	ERJ3GEYJ103	Carbon	10K ohms 1/16W
R9	ERJ3GEYJ272	Carbon	2.7K ohms 1/16W
R11-17	EXBV8V101J	Block Resistor	100 ohms
R18,R19	ERJ3GEYJ272	Carbon	2.7K ohms 1/16W
C1,3	YWT316B104MT	Ceramic	0.1 μF
C4,5	ECST1DX106ZR	Tantalum	10 μF 20V
C6	YWT316B104MT	Ceramic	0.1 μF
C8-20	GRM9CH330J5H	Ceramic	33 pF
C21	ECST1DX106ZR	Tantalum	10 μF 20V
C22	YGM1B104K1CT	Ceramic	0.1 μF
C24-26	ECST1DX106ZR	Tantalum	10 μF 20V
C27	YGM1B104K1CT	Ceramic	0.1 μF
C28	ECST1DX106ZR	Tantalum	10 μF 20V
C29	YGM1B104K1CT	Ceramic	0.1 μF
C30	ECST1DX106ZR	Tantalum	10 μF 20V
C31	YGM1B104K1CT	Ceramic	0.1 μF
C32,33	YGM1C102J1ET	Ceramic	1000 pF
C34-38	ECST1AD107ZR	Tantalum	100 μF 10V
P1	145154-4	Connector	
P2	YWF795P040LA	Connector	

SCHEMATIC DIAGRAM OF I/F BOARD

I/F BOARD



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B
A
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3
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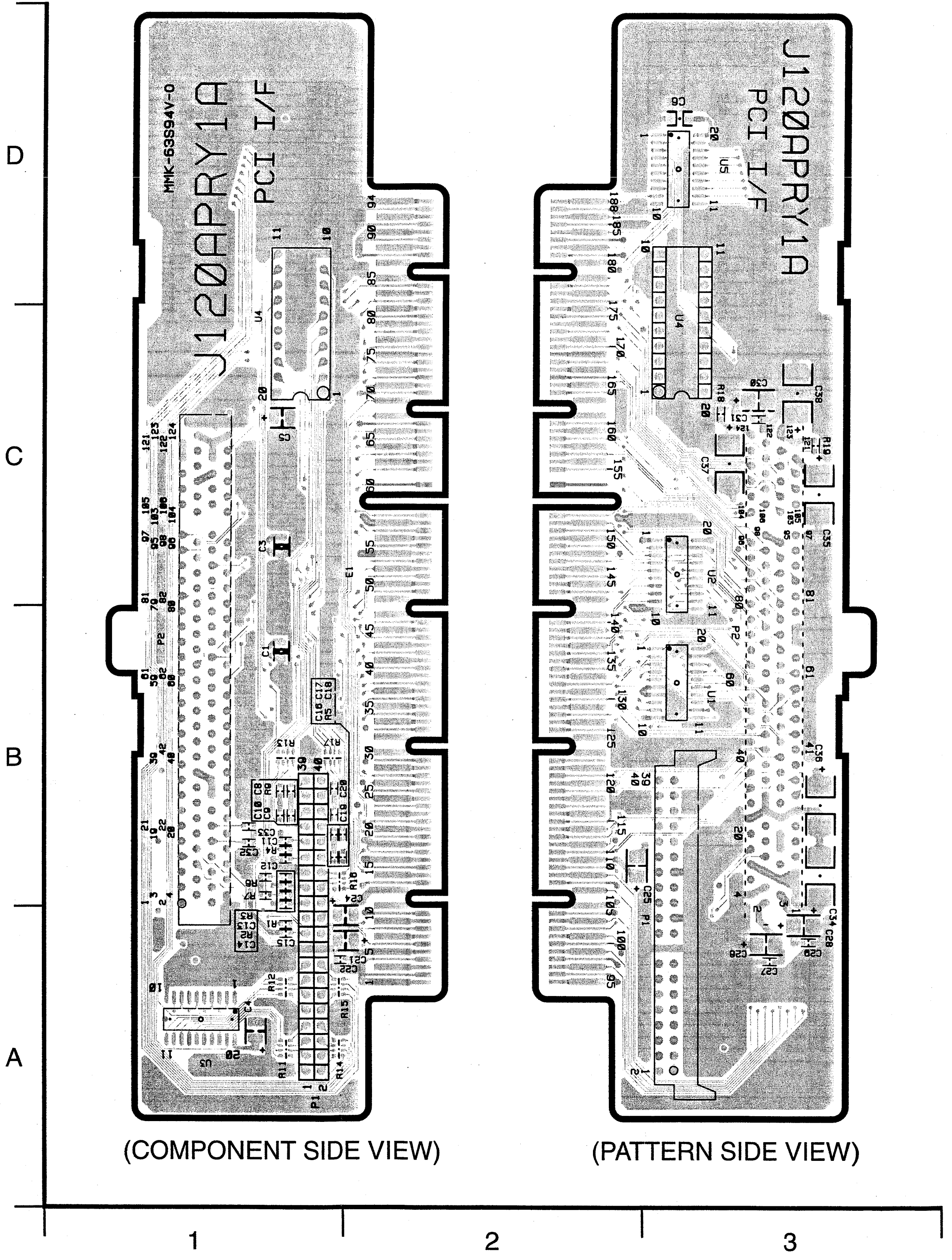
E1
U1
U2
U3
U4
U5
P1
P2
+5V
ACLK
ABALE
ATOR
ATOW
IOCS16
IRQ10
IRQ11
IRQ12
IRQ15
INTA
INTB
INTC
INTD
RST
FRAME
IRDY
TRDY
STOP
SDONE
SBO
CBE0
CBE1
CBE2
CBE3
PAR
DEVSEL
LOCK
PERR
SERR
R1 101
R2 100
R3 101
R4 101
R5 101
R9 272
R18 272
R19 272
C1 104
C3 104
C4 10/20
C5 10/20
C6 104

< INDEX >
IF BOARD

U1	D3
U2	C3
U3	B3
U4	C3
U5	A5

CONDUCTOR VIEW OF I/F BOARD

I/F BOARD


MMK-63894V-0
J120APRY1A
PCI I/F
U1
U2
U3
U4
U5
D
C
B
A
1
2
3

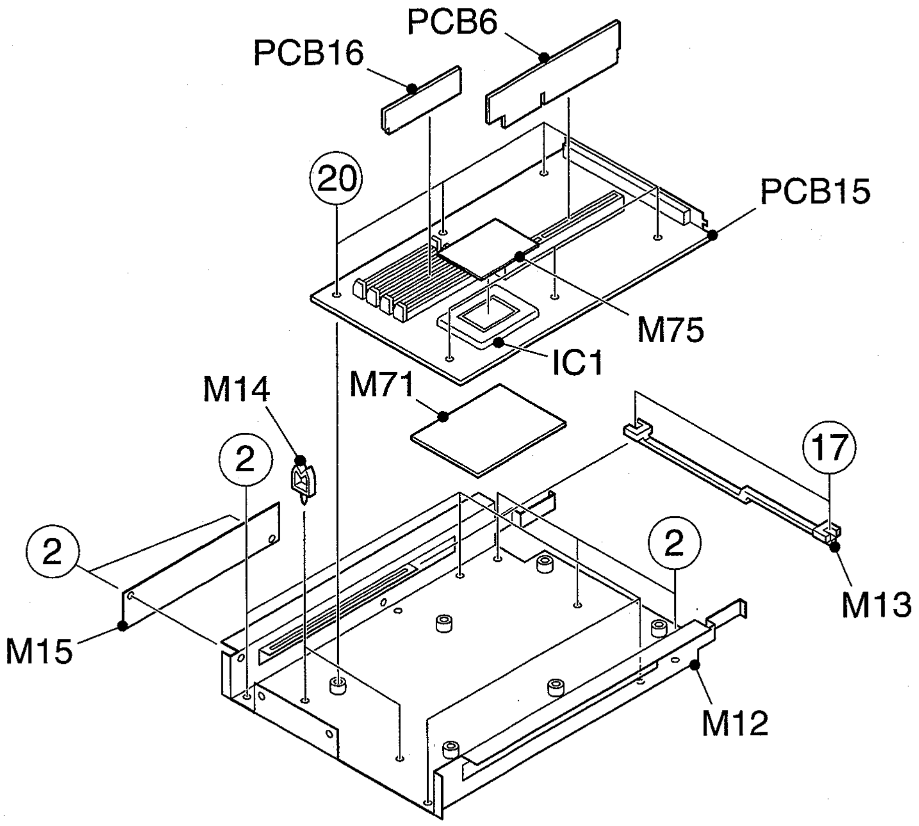
(COMPONENT SIDE VIEW)

(PATTERN SIDE VIEW)

< INDEX >
I/F BOARD

U1	B1
U2	C3
U3	A1
U4	C1
U5	D3

EXPLODED VIEW

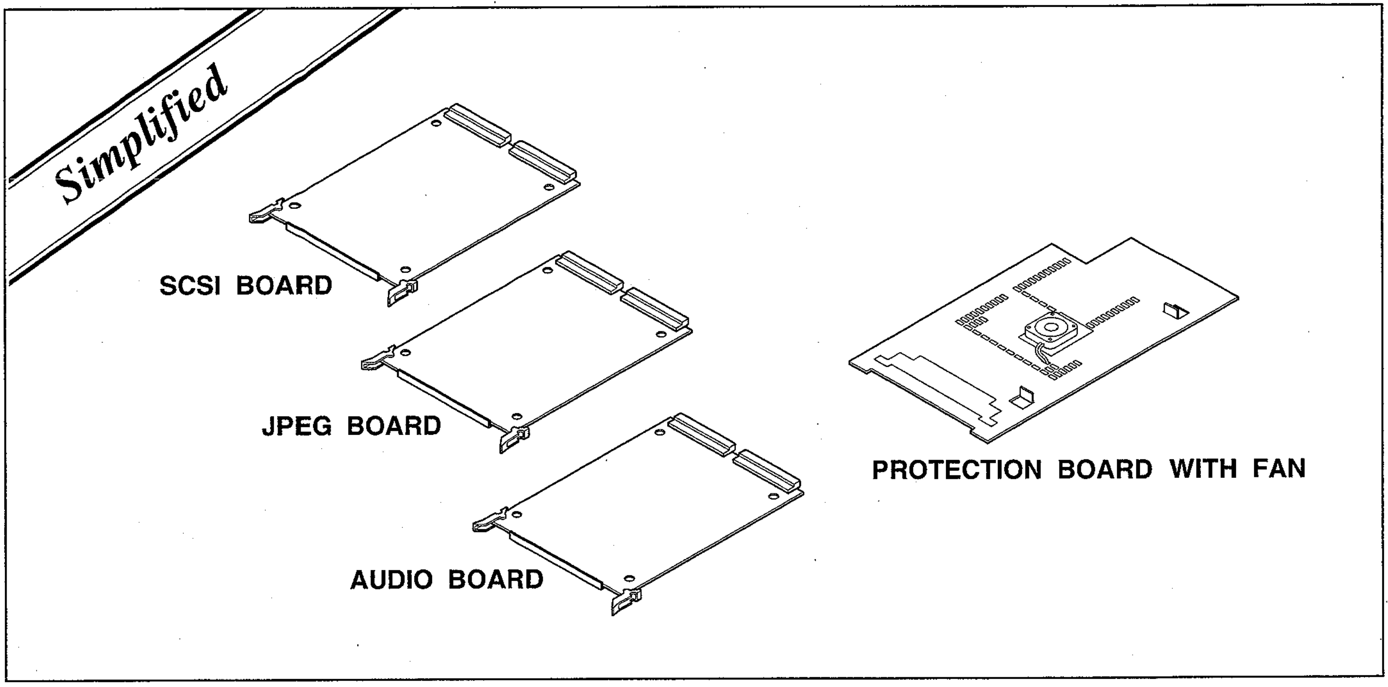

PCB6
PCB16
20
PCB15
M75
IC1
M71
M14
2
17
2
2
M13
M15
M12

ORDER NO. BSD9708013A8

Service Manual

Upgrade Board
WJ-PB1003E
For WJ-MX1000K

V20641



Please file and use this manual together with the service manual for the Model No. WJ-MX1000K, order NO. AVS9511066C8.

V20639

SPECIFICATIONS

Power Supply :	AUDIO BOARD:	+12V DC, –12V DC, +5VDC
	JPEG BOARD:	+5V DC
	SCSI BOARD:	+5V DC
	(Supplied from Main Unit)	
Ambient Operating Temperature :	0°C - +35°C (32°F - 95°F)	
Ambient Operating Humidity :	90% or less	
Dimensions :	235(W) x 19(H) x 320(D) mm 9-1/4"(W) x 3/4"(H) x 12-5/8"(D)	
Weight :	AUDIO BOARD:	700g (1.5 lbs.)
	JPEG BOARD:	750g (1.7 lbs.)
	SCSI BOARD:	700g (1.5 lbs.)

Dimensions and weight shown above are approximate.
Specifications are subject to change without notice.

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This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

⚠ This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards.
Do not modify the original design without permission of manufacture.

CONTENTS

Installation 1

Circuit Description

IC Description 3
Adjustment Procedures 21
Location of Test Points and Adjusting Controls 29
Apperance of ICs, Transistors and Diodes 30

Block Diagram

JPEG/SCSI Board (JPEG Section) 1/2 31
JPEG/SCSI Board (JPEG Section) 2/2 32
JPEG/SCSI Board (SCSI Section) 33
Audio Board 34

Schematic Diagram

JPEG/SCSI Board (JPEG Section) 1/2 35
JPEG/SCSI Board (JPEG Section) 2/2 36
JPEG/SCSI Board (SCSI Section) 39
Audio Board 40

Conductor View

JPEG/SCSI Board (JPEG Section) 37
JPEG/SCSI Board (SCSI Section) 38
Audio Board 41
Exploded View 42
Replacement Parts List 43

INSTALLATION

Caution :

When handling this board, hold only by the circuit board edges. Otherwise the components on the board may be damaged by static electricity.

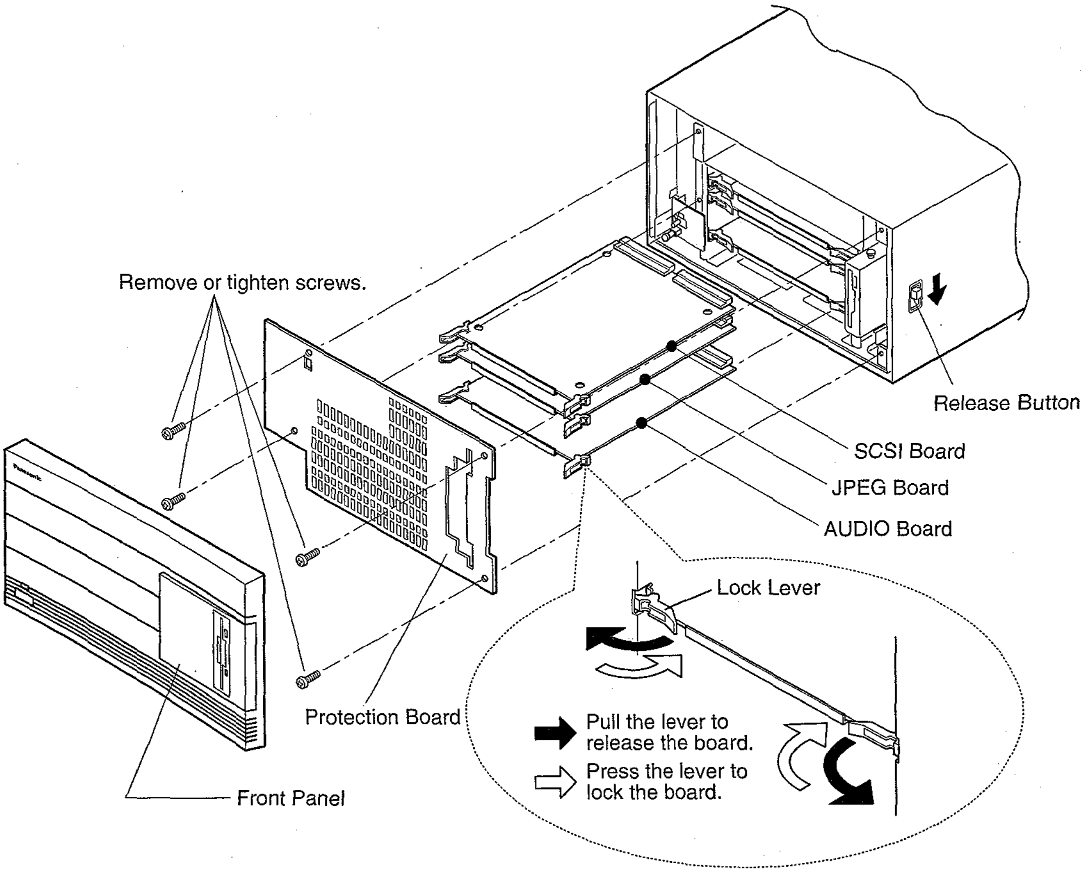
Precaution :

Refer all work related to the installation of this product to qualified service personnel or system installers.

Caution :

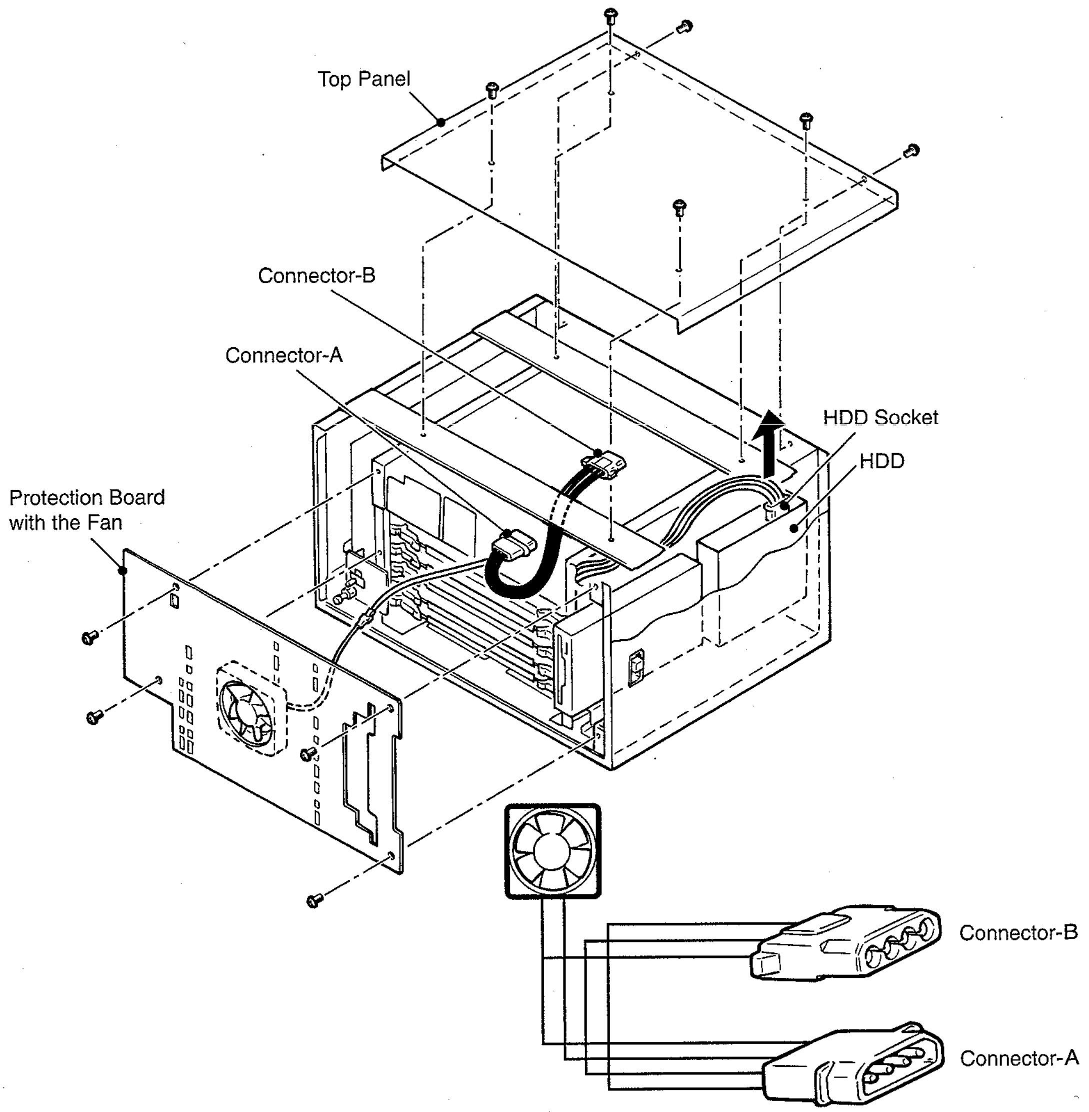
Before installing this board, be sure to turn off the power of the Main Kit.

1. Shut down the system and turn off the power of the Main Kit.
   Refer to the Installation Manual of the WJ-MX1000K, to shut down the system.
2. Remove the Front Panel from the Main Kit by pressing down the right and left Release Button.
3. Remove the protection board by removing the screws on the board.
4. Extract the last board (Audio Board) from the top.
5. Pull (open) the lock levers of the Audio Board of the WJ-PB1003E and place it into the position where the original Audio Board was installed.
6. Extract the second board (JPEG Board) from the top.
7. Pull (open) the lock levers of the JPEG Board of the WJ-PB1003E and place it into the position where the original JPEG Board was installed.
   Press the lock lever on the board to push in the board until seated firmly.
8. Extract the first board (SCSI board, which has fewer components than the JPEG Board).
9. Pull (open) the lock levers of the SCSI Board of the WJ-PB1003E and place it into the position where the original SCSI Board was installed.
   Press the lock lever on the board to push in the board until seated firmly.



➡ Pull the lever to release the board.

⇨ Press the lever to lock the board.


Top Panel
Connector-B
Connector-A
HDD Socket
HDD
Protection Board with the Fan
Connector-B
Connector-A

10. Remove the six screws to remove the Top Panel from the Main Kit.
11. Disconnect the blue-and-gray cable from the HDD.
12. Insert the blue-and-gray cable into connector-A (male) of the Fan Cable on the new protection board.
13. Insert the connector-B (female) of the Fan Cable into the HDD.
14. Install the Top Panel with the six screws.
15. Install the Protection Board with the Fan by tightening the screws.
16. Press down the right and left Release Button.
17. Install the Front Panel and then press up the right and left Release Button.
18. Confirm that the Front Panel is fixed firmly.
19. Turn on the power of main unit.
    Confirm that the system boots up.
    Please refer to the Installation Manual of Main Kit for system boot-up.

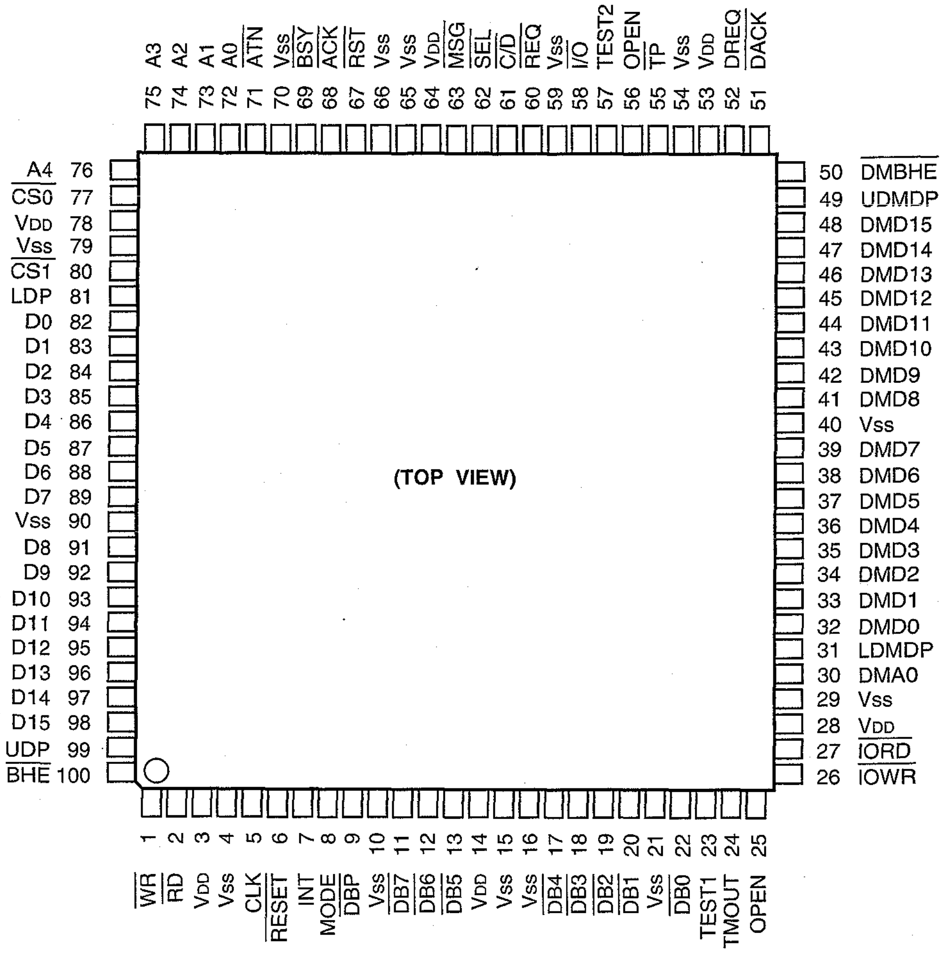
CIRCUIT DESCRIPTION

IC Description

1. Audio Board

1.1. U53 on the Audio Board, U75 and U275 on the JPEG/SCSI Board (JPEG Section) and U75 on the JPEG/SCSI Board (SCSI Section) are using the Interface IC MB86604LPFVG.

Description of this IC is as follows:


75 A3
74 A2
73 A1
72 A0
71 ATN
70 Vss
69 BSY
68 ACK
67 RST
66 Vss
65 Vss
64 VDD
63 MSG
62 SEL
61 C/D
60 REQ
59 Vss
58 I/O
57 TEST2
56 OPEN
55 TP
54 Vss
53 VDD
52 DREQ
51 DACK
76 A4
77 CS0
78 VDD
79 Vss
80 CS1
81 LDP
82 D0
83 D1
84 D2
85 D3
86 D4
87 D5
88 D6
89 D7
90 Vss
91 D8
92 D9
93 D10
94 D11
95 D12
96 D13
97 D14
98 D15
99 UDP
100 BHE
(TOP VIEW)
50 DMBHE
49 UDMDP
48 DMD15
47 DMD14
46 DMD13
45 DMD12
44 DMD11
43 DMD10
42 DMD9
41 DMD8
40 Vss
39 DMD7
38 DMD6
37 DMD5
36 DMD4
35 DMD3
34 DMD2
33 DMD1
32 DMD0
31 LDMDP
30 DMA0
29 Vss
28 VDD
27 IORD
26 IOWR
1 WR
2 RD
3 VDD
4 Vss
5 CLK
6 RESET
7 INT
8 MODE
9 DBP
10 Vss
11 DB7
12 DB6
13 DB5
14 VDD
15 Vss
16 Vss
17 DB4
18 DB3
19 DB2
20 DB1
21 Vss
22 DB0
23 TEST1
24 TMOUT
25 OPEN

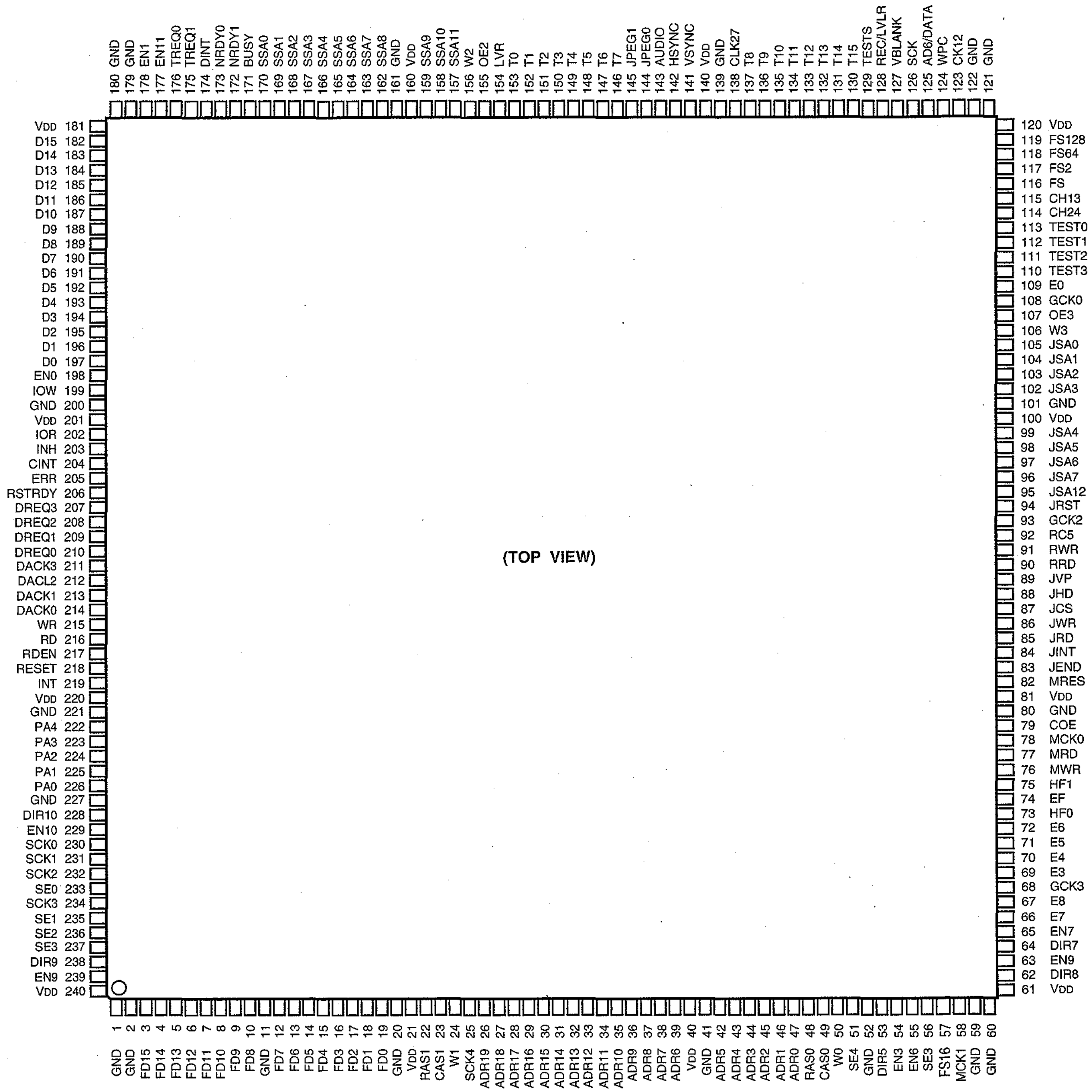
Pin	Name	I/O	Description
1	WR	I	Write signal input terminal.
2	RD	I	Read signal input terminal.
3	VDD	–	Power supply terminal.
4	Vss	–	Ground terminal.
5	CLK	I	Clock Pulse input terminal.
6	RESET	I	Reset Pulse input terminal.
7	INT	O	Interrupt Request output terminal.
8	MODE	I	MPU/DMA Bus mode select signal input terminal.
9	DBP	I/O	SCSI Data Bus Parity Data input/output terminal.
10	Vss	–	Ground terminal.
11	DB7	I/O	SCSI Data Bus terminals. (8-Bit)
12	DB6	I/O	
13	DB5	I/O	
14	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
15	Vss	–	Ground terminal.
16	Vss	–	Ground terminal.
17	DB4	I/O	SCSI Data Bus terminals. (8-Bit)
18	DB3	I/O	
19	DB2	I/O	
20	DB1	I/O	
21	Vss	–	Ground terminal.
22	DB0	I/O	SCSI Data Bus terminals. (8-Bit)
23	TEST1	–	Ground terminal.
24	TMOUT	O	Time Out signal output terminal.
25	OPEN	–	Open terminal.
26	IOWR	I/O	I/O Data Write signal input terminal.
27	IORD	I/O	I/O Data Read signal input terminal.
28	VDD	–	Power supply terminal.
29	Vss	–	Ground terminal.

Pin	Name	I/O	Description
30	DMA0	I	DMA Address signal 0 input terminal.
31	LDMDP	I/O	Lower DMA Data Parity Data input/ output terminal.
32	DMD0	I/O	Lower DMA Data Bus terminals. (8-Bit)
33	DMD1	I/O	
34	DMD2	I/O	
35	DMD3	I/O	
36	DMD4	I/O	
37	DMD5	I/O	
38	DMD6	I/O	
39	DMD7	I/O	
40	Vss	–	Ground terminal.
41	DMD8	I/O	Upper DMA Data Bus terminals. (8-Bit)
42	DMD9	I/O	
43	DMD10	I/O	
44	DMD11	I/O	
45	DMD12	I/O	
46	DMD13	I/O	
47	DMD14	I/O	
48	DMD15	I/O	
49	UDMDP	I/O	Upper DMA Data Parity Data input/ output terminal.
50	$\overline{\text{DMBHE}}$	I	DMA Bus High Enable signal input terminal.
51	$\overline{\text{DACK}}$	I	DMA Acknowledge signal input terminal.
52	DREQ	O	DMA Request signal output terminal.
53	VDD	–	Power supply terminal.
54	Vss	–	Ground terminal.
55	TP	I	Transfer Permission signal input terminal.
56	OPEN	–	Open terminal.
57	TEST2	I	Test terminal.
58	$\overline{\text{I/O}}$	I/O	Data Transfer Direction Control signal input/output terminal.
59	Vss	–	Ground terminal.
60	$\overline{\text{REQ}}$	I/O	Transfer Request signal output erminal. Data Transfer Sequence Timing Control Control signal input terminal.
61	$\overline{\text{C/D}}$	I/O	Control/Data Setting signal input/output terminal.
62	$\overline{\text{SEL}}$	I/O	Select signal input/output terminal.
63	$\overline{\text{MSG}}$	I/O	Message signal input/output terminal.
64	VDD	–	Power supply terminal.
65	Vss	–	Ground terminal.
66	Vss	–	Ground terminal.
67	$\overline{\text{RST}}$	I/O	Reset Pulse input/output terminal.

Pin	Name	I/O	Description
68	$\overline{\text{ACK}}$	I/O	Acknowledge signal output terminal. Data Transfer Sequence Timing Control signal input terminal.
69	$\overline{\text{BSY}}$	I/O	Busy signal input/output terminal.
70	Vss	–	Ground terminal.
71	$\overline{\text{ATN}}$	I/O	Message Transfer Phase Request signal input/output terminal.
72	A0	I	Address signal input terminals. (5-Bit)
73	A1	I	
74	A2	I	
75	A3	I	
76	A4	I	
77	$\overline{\text{CS0}}$	I	Chip Select signal input terminal.
78	VDD	–	Power supply terminal.
79	Vss	–	Ground terminal.
80	$\overline{\text{CS1}}$	I	Chip Select signal input terminal.
81	LDP	I/O	Lower Data Parity Bit input/output terminal.
82	D0	I/O	Low Byte of Data Bus terminals. (8-Bit)
83	D1	I/O	
84	D2	I/O	
85	D3	I/O	
86	D4	I/O	
87	D5	I/O	
88	D6	I/O	
89	D7	I/O	
90	Vss	–	Ground terminal.
91	D8	I/O	Upper Byte of Data Bus terminals. (8-Bit)
92	D9	I/O	
93	D10	I/O	
94	D11	I/O	
95	D12	I/O	
96	D13	I/O	
97	D14	I/O	
98	D15	I/O	
99	UDP	I/O	Upper Data Parity Bit input/output terminal.
100	$\overline{\text{BHE}}$	I	Bus High Enable signal input terminal.

1.2. U71 on the Audio Board, U16 on the JPEG/SCSI Board (JPEG Section) and U16 on the JPEG/SCSI Board (SCSI Section) are using the Gate Array Logic IC UPD65806080.
Description of this IC is as follows:


180 GND
179 GND
178 EN1
177 EN11
176 TREQ0
175 TREQ1
174 DINT
173 NRDY0
172 NRDY1
171 BUSY
170 SSA0
169 SSA1
168 SSA2
167 SSA3
166 SSA4
165 SSA5
164 SSA6
163 SSA7
162 SSA8
161 GND
160 VDD
159 SSA9
158 SSA10
157 SSA11
156 W2
155 OE2
154 LVR
153 T0
152 T1
151 T2
150 T3
149 T4
148 T5
147 T6
146 T7
145 JPEG1
144 JPEG0
143 AUDIO
142 HSYNC
141 VSYNC
140 VDD
139 GND
138 CLK27
137 T8
136 T9
135 T10
134 T11
133 T12
132 T13
131 T14
130 T15
129 TESTS
128 REC/LVLR
127 VBLANK
126 SCK
125 AD6/DATA
124 WPC
123 CK12
122 GND
121 GND
VDD 181
D15 182
D14 183
D13 184
D12 185
D11 186
D10 187
D9 188
D8 189
D7 190
D6 191
D5 192
D4 193
D3 194
D2 195
D1 196
D0 197
EN0 198
IOW 199
GND 200
VDD 201
IOR 202
INH 203
CINT 204
ERR 205
RSTRDY 206
DREQ3 207
DREQ2 208
DREQ1 209
DREQ0 210
DACK3 211
DACL2 212
DACK1 213
DACK0 214
WR 215
RD 216
RDEN 217
RESET 218
INT 219
VDD 220
GND 221
PA4 222
PA3 223
PA2 224
PA1 225
PA0 226
GND 227
DIR10 228
EN10 229
SCK0 230
SCK1 231
SCK2 232
SE0 233
SCK3 234
SE1 235
SE2 236
SE3 237
DIR9 238
EN9 239
VDD 240
(TOP VIEW)
120 VDD
119 FS128
118 FS64
117 FS2
116 FS
115 CH13
114 CH24
113 TEST0
112 TEST1
111 TEST2
110 TEST3
109 E0
108 GCK0
107 OE3
106 W3
105 JSA0
104 JSA1
103 JSA2
102 JSA3
101 GND
100 VDD
99 JSA4
98 JSA5
97 JSA6
96 JSA7
95 JSA12
94 JRST
93 GCK2
92 RC5
91 RWR
90 RRD
89 JVP
88 JHD
87 JCS
86 JWR
85 JRD
84 JINT
83 JEND
82 MRES
81 VDD
80 GND
79 COE
78 MCK0
77 MRD
76 MWR
75 HF1
74 EF
73 HF0
72 E6
71 E5
70 E4
69 E3
68 GCK3
67 E8
66 E7
65 EN7
64 DIR7
63 EN9
62 DIR8
61 VDD
1 GND
2 GND
3 FD15
4 FD14
5 FD13
6 FD12
7 FD11
8 FD10
9 FD9
10 FD8
11 GND
12 FD7
13 FD6
14 FD5
15 FD4
16 FD3
17 FD2
18 FD1
19 FD0
20 GND
21 VDD
22 RAS1
23 CAS1
24 W1
25 SCK4
26 ADR19
27 ADR18
28 ADR17
29 ADR16
30 ADR15
31 ADR14
32 ADR13
33 ADR12
34 ADR11
35 ADR10
36 ADR9
37 ADR8
38 ADR7
39 ADR6
40 VDD
41 GND
42 ADR5
43 ADR4
44 ADR3
45 ADR2
46 ADR1
47 ADR0
48 RAS0
49 CAS0
50 W0
51 SE4
52 GND
53 DIR5
54 EN3
55 EN6
56 SE3
57 FS16
58 MCK1
59 GND
60 GND

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	GND	–	Ground terminal.
3	FD15	I/O	F Data Bus terminals. (16-Bit)
4	FD14	I/O	
5	FD13	I/O	
6	FD12	I/O	
7	FD11	I/O	
8	FD10	I/O	

Pin	Name	I/O	Description
9	FD9	I/O	F Data Bus terminals. (16-Bit)
10	FD8	I/O	
11	GND	–	Ground terminal.
12	FD7	I/O	F Data Bus terminals. (16-Bit)
13	FD6	I/O	
14	FD5	I/O	
15	FD4	I/O	
16	FD3	I/O	

Pin	Name	I/O	Description
17	FD2	I/O	F Data Bus terminals. (16-Bit)
18	FD1	I/O	
19	FD0	I/O	
20	GND	–	Ground terminal.
21	VDD	–	Power supply terminal.
22	RAS1	O	Row Address Strobe Pulse output terminal.
23	CAS1	O	Column Address Strobe Pulse output terminal.
24	W1	O	Write Enable signal output terminal.
25	SCK4	O	Serial Clock Pulse output terminal.
26	ADR19	O	Address signal output terminals. (20-Bit)
27	ADR18	O	
28	ADR17	O	
29	ADR16	O	
30	ADR15	O	
31	ADR14	O	
32	ADR13	O	
33	ADR12	O	
34	ADR11	O	
35	ADR10	O	
36	ADR9	O	
37	ADR8	O	
38	ADR7	O	
39	ADR6	O	
40	GND	–	Ground terminal.
41	VDD	–	Power supply terminal.
42	ADR5	O	Address signal output terminals. (20-Bit)
43	ADR4	O	
44	ADR3	O	
45	ADR2	O	
46	ADR1	O	
47	ADR0	O	
48	RAS0	O	Row Address Strobe Pulse output terminal.
49	CAS0	O	Column Address Strobe Pulse output terminal.
50	W0	O	Write Enable signal output terminal.
51	SE4	O	Select signal output terminal.
52	GND	–	Ground terminal.
53	DIR5	O	Direct signal output terminal.
54	EN3	O	Enable signal output terminal.
55	EN6	O	Enable signal output terminal.
56	SE3	O	Select signal output terminal.
57	FS16	O	FS16 signal output terminal.
58	MCK1	O	Master Clock Pulse output terminal.
59	GND	–	Ground terminal.
60	GND	–	Ground terminal.

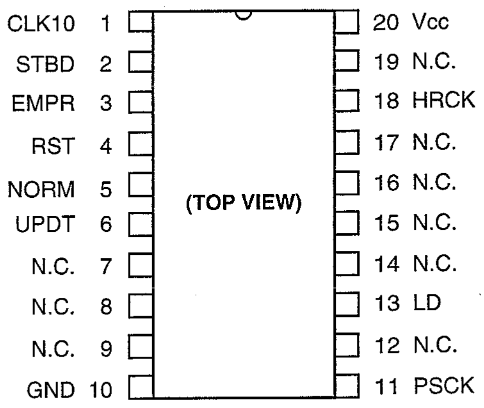
Pin	Name	I/O	Description
61	VDD	–	Power supply terminal.
62	DIR8	O	Direct signal output terminal.
63	EN9	O	Enable signal output terminal.
64	DIR7	O	Direct signal output terminal.
65	EN7	O	Enable signal output terminal.
66	E7	O	E signal output terminal.
67	E8	O	E signal output terminal.
68	GCK3	O	Clock Pulse output terminal.
69	E3	O	E signal output terminal.
70	E4	O	E signal output terminal.
71	E5	O	E signal output terminal.
72	E6	O	E signal output terminal.
73	HF0	I	Half Full signal input terminal.
74	EF	I	Empty Flag signal input terminal.
75	HF1	I	Half Full signal input terminal.
76	MWR	O	Write signal output terminal.
77	MRD	O	Read signal output terminal.
78	MCK0	O	Master Clock Pulse output terminal.
79	COE	O	COE signal output terminal.
80	GND	–	Ground terminal.
81	VDD	–	Power supply terminal.
82	MRES	O	Master Reset Pulse output terminal.
83	JEND	O	JPEG End signal output terminal.
84	JINT	O	JPEG Interrupt signal output terminal.
85	JRD	O	JPEG Read signal output terminal.
86	JWR	O	JPEG Write signal output terminal.
87	JCS	O	JPEG Chip Select signal output terminal.
88	JHD	O	JPEG HD Pulse output terminal.
89	JVP	O	JPEG VP Pulse output terminal.
90	RRD	O	Read signal output terminal.
91	RWR	O	Write signal output terminal.
92	RC5	O	RC5 signal output terminal.
93	GCK2	O	Clock Pulse output terminal.
94	JRST	O	JPEG Reset Pulse output terminal.
95	JSA12	O	JPEG Address signal output terminals. (9-Bit)
96	JSA7	O	
97	JSA6	O	
98	JSA5	O	
99	JSA4	O	
100	VDD	–	Power supply terminal.
101	GND	–	Ground terminal.
102	JSA3	O	JPEG Address signal output terminals. (9-Bit)
103	JSA2	O	
104	JSA1	O	
105	JSA0	O	
106	W3	O	Write Enable signal output terminal.
107	OE3	O	Output Enable signal output terminal.

Pin	Name	I/O	Description
108	GCK0	O	Clock Pulse output terminal.
109	E0	O	E signal output terminal.
110	TEST3	I	Test terminals.
111	TEST2	I	
112	TEST1	I	
113	TEST0	I	
114	CH24	O	CH24 signal output terminal.
115	CH13	O	CH13 signal output terminal.
116	FS	O	FS signal output terminal.
117	FS2	O	FS2 signal output terminal.
118	FS64	O	FS64 signal output terminal.
119	FS128	O	FS128 signal output terminal.
120	VDD	–	Power supply terminal.
121	GND	–	Ground terminal.
122	GND	–	Ground terminal.
123	CK12	O	Clock Pulse output terminal.
124	WPC	O	WPC signal output terminal.
125	AD6/ DATA	O	AD6/DATA output terminal.
126	SCK	O	Serial Clock Pulse output terminal.
127	VBLANK	I	Vertical Blanking Pulse input terminal.
128	REC/ LVLR	I	REC/LVLR signal input terminal.
129	TESTS	I	Test terminal.
130	T15	I	T15 signal input terminal.
131	T14	I	T14 signal input terminal.
132	T13	I	T13 signal input terminal.
133	T12	I	T12 signal input terminal.
134	T11	I	T11 signal input terminal.
135	T10	I	T10 signal input terminal.
136	T9	I	T9 signal input terminal.
137	T8	I	T8 signal input terminal.
138	CLK27	O	Clock Pulse output terminal.
139	GND	–	Ground terminal.
140	VDD	–	Power supply terminal.
141	VSYNC	I	Vertical Sync signal input terminal.
142	HSYNC	I	Horizontal Sync signal input terminal.
143	AUDIO	I	Audio Select signal input terminal.
144	JPEG0	I	JPEG0 Select signal input terminal.
145	JPEG1	I	JPEG1 Select signal input terminal.
146	T7	I	T7 signal input terminal.
147	T6	I	T6 signal input terminal.
148	T5	I	T5 signal input terminal.
149	T4	I	T4 signal input terminal.
150	T3	I	T3 signal input terminal.
151	T2	I	T2 signal input terminal.
152	T1	I	T1 signal input terminal.

Pin	Name	I/O	Description
153	T0	I	T0 signal input terminal.
154	LVR	I	LVR signal output terminal.
155	OE2	O	Output Enable signal output terminal.
156	W2	O	Write Enable signal output terminal.
157	SSA11	O	SRAM Address signal output terminals. (12-Bit)
158	SSA10	O	
159	SSA9	O	
160	VDD	–	Power supply terminal.
161	GND	–	Ground terminal.
162	SSA8	O	SRAM Address signal output terminals. (12-Bit)
163	SSA7	O	
164	SSA6	O	
165	SSA5	O	
166	SSA4	O	
167	SSA3	O	
168	SSA2	O	
169	SSA1	O	
170	SSA0	O	
171	BUSY	I	Busy signal input terminal.
172	NRDY1	I	Ready signal input terminal.
173	NRDY0	I	Ready signal input terminal.
174	DINT	I	Interrupt signal input terminal.
175	TREQ1	O	Request signal output terminal.
176	TREQ0	O	Request signal output terminal.
177	EN11	O	Enable signal output terminal.
178	E1	O	E signal output terminal.
179	GND	–	Ground terminal.
180	GND	–	Ground terminal.
181	VDD	–	Power supply terminal.
182	D15	I/O	Data Bus terminals. (16-Bit)
183	D14	I/O	
184	D13	I/O	
185	D12	I/O	
186	D11	I/O	
187	D10	I/O	
188	D9	I/O	
189	D8	I/O	
190	D7	I/O	
191	D6	I/O	
192	D5	I/O	
193	D4	I/O	
194	D3	I/O	
195	D2	I/O	
196	D1	I/O	
197	D0	I/O	
198	EN0	O	Enable signal output terminal.

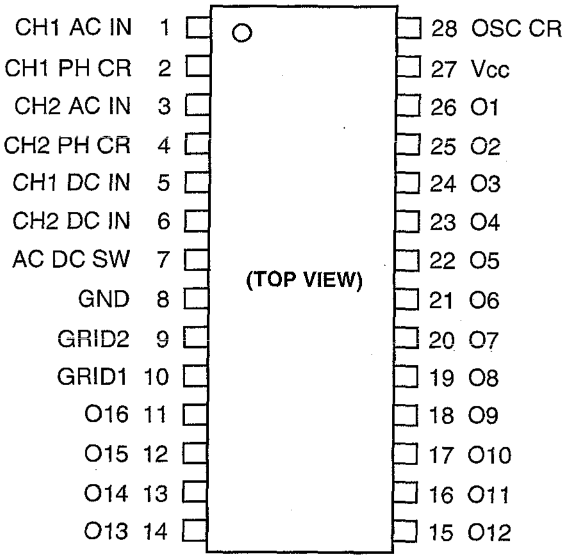
Pin	Name	I/O	Description
199	IOW	I	IOW signal input terminal.
200	GND	–	Ground terminal.
201	VDD	–	Power supply terminal.
202	IOR	I	IOR signal input terminal.
203	INH	I	Inhibit signal input terminal.
204	CINT	I	Interrupt signal input terminal.
205	ERR	I	Error signal input terminal.
206	RSTRDY	I	Reset Ready signal input terminal.
207	DREQ3	O	Request signal output terminal.
208	DREQ2	O	Request signal output terminal.
209	DREQ1	O	Request signal output terminal.
210	DREQ0	O	Request signal output terminal.
211	DACK3	I	Ackowledge signal input terminal.
212	DACK2	I	Ackowledge signal input terminal.
213	DACK1	I	Ackowledge signal input terminal.
214	DACK0	I	Ackowledge signal input terminal.
215	WPC	O	WPC signal output terminal.
216	WR	O	Write Enable signal output terminal.
217	RD	O	Read Enable signal output terminal.
218	RESET	I	Reset Pulse input terminal.
219	INT	I	Interrupt signal input terminal.
220	VDD	–	Power supply terminal.
221	GND	–	Ground terminal.
222	PA4	O	Interface Address signal output terminals. (5-Bit)
223	PA3	O	
224	PA2	O	
225	PA1	O	
226	PA0	O	
227	GND	–	Ground terminal.
228	DIR10	O	Direct signal output terminal.
229	EN10	O	Enable signal output terminal.
230	SCK0	O	Serial Clock Pulse output terminal.
231	SCK1	O	Serial Clock Pulse output terminal.
232	SCK2	O	Serial Clock Pulse output terminal.
233	SE0	O	Select signal output terminal.
234	SCK3	O	Serial Clock Pulse output terminal.
235	SE1	O	Select signal output terminal.
236	SE2	O	Select signal output terminal.
237	SE3	O	Select signal output terminal.
238	DIR9	O	Direct signal output terminal.
239	EN9	O	Enable signal output terminal.
240	VDD	–	Power supply terminal.

1.3. U102 on the Audio Board is using Logic Control IC YW18V1015001.
Description of this IC is as follows:



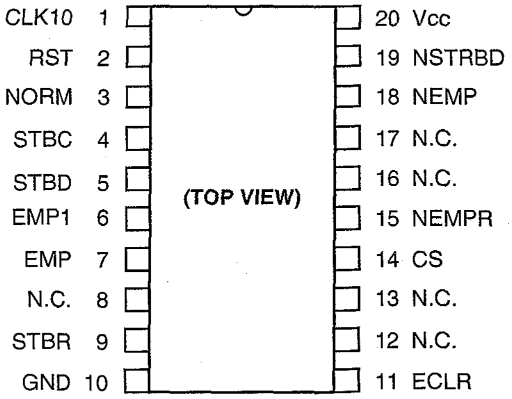
Pin	Name	I/O	Description
1	CLK10	I	Clock Pulse input terminal.
2	STBO	I	Strobe Pulse input terminal.
3	EMPR	I	Empty signal input terminal.
4	RST	I	Reset Pulse input terminal.
5	NORM	I	Normal signal input terminal.
6	UPDT	I	Up Date signal input terminal.
7	N.C.	–	Non connection.
8	N.C.	–	Non connection.
9	N.C.	–	Non connection.
10	GND	–	Ground terminal.
11	PSCK	O	Clock Pulse output terminal.
12	N.C.	–	Non connection.
13	LD	O	Load signal output terminal.
14	N.C.	–	Non connection.
15	N.C.	–	Non connection.
16	N.C.	–	Non connection.
17	N.C.	–	Non connection.
18	HRCK	O	Clock Pulse output terminal.
19	N.C.	–	Non connection.
20	Vcc	–	Power supply terminal.

1.4. U56 on the Audio Board is using Level Meter Driver IC YWBA6800AF.
Description of this IC is as follows:


CH1 AC IN 1
CH1 PH CR 2
CH2 AC IN 3
CH2 PH CR 4
CH1 DC IN 5
CH2 DC IN 6
AC DC SW 7
GND 8
GRID2 9
GRID1 10
O16 11
O15 12
O14 13
O13 14
(TOP VIEW)
28 OSC CR
27 Vcc
26 O1
25 O2
24 O3
23 O4
22 O5
21 O6
20 O7
19 O8
18 O9
17 O10
16 O11
15 O12

Pin	Name	I/O	Description
1	CH1 AC IN	I	CH1 AC signal input terminal.
2	CH1 PH CR	–	CH1 Peak Holde Capacitor/Resistor connecting terminal.
3	CH2 AC IN	I	CH2 AC signal input terminal.
4	CH2 PH CR	–	CH2 Peak Holde Capacitor/Resistor connecting terminal.
5	CH1 DC IN	I	CH1 DC signal input terminal.
6	CH2 DC IN	I	CH2 DC signal input terminal.
7	AC DC SW	I	AC/DC Switching signal input terminal.
8	GND	–	Ground terminal.
9	GRID2	O	Grid Driver 2 signal output terminal.
10	GRID1	O	Grid Driver 1 signal output terminal.
11	O16	O	Segment Driver signal output terminals. (16-Bit)
12	O15	O	
13	O14	O	
14	O13	O	
15	O12	O	
16	O11	O	
17	O10	O	
18	O9	O	
19	O8	O	
20	O7	O	
21	O6	O	
22	O5	O	
23	O4	O	
24	O3	O	
25	O2	O	Segment Driver signal output terminals. (16-Bit)
26	O1	O	
27	Vcc	–	Power supply terminal.
28	OSC CR	–	Oscillation Capacitor/Resistor connecting terminal.

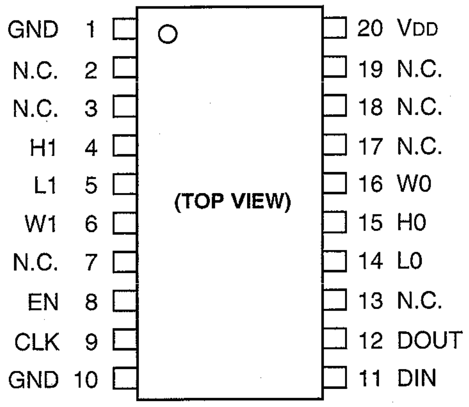
1.5. U103 on the Audio Board is using Logic Control IC 18V1015002.
Description of this IC is as follows:


CLK10 1
RST 2
NORM 3
STBC 4
STBD 5
EMP1 6
EMP 7
N.C. 8
STBR 9
GND 10
(TOP VIEW)
20 Vcc
19 NSTRBD
18 NEMP
17 N.C.
16 N.C.
15 NEMPR
14 CS
13 N.C.
12 N.C.
11 ECLR

Pin	Name	I/O	Description
1	CLK10	I	Clock Pulse input terminal.
2	RST	I	Reset Pulse input terminal.
3	NORM	I	Normal signal input terminal.
4	STBC	I	Strobe Pulse input terminal.
5	STBD	I	Strobe Pulse input terminal.
6	EMP1	I	Empty signal input terminal.
7	EMP	I	Empty signal input terminal.
8	N.C.	–	Non connection.
9	STBR	O	Strobe Pulse output terminal.
10	GND	–	Ground terminal.
11	ECLR	O	E Clear Pulse output terminal.
12	N.C.	–	Non connection.
13	N.C.	–	Non connection.
14	CS	O	Chip Select signal output terminal.
15	NEMPR	O	Empty signal output terminal.
16	N.C.	–	Non connection.
17	N.C.	–	Non connection.
18	NEMP	O	Empty signal output terminal.
19	NSTBD	O	Strobe Pulse output terminal.
20	Vcc	–	Power supply terminal.

1.6. U105 on the Audio Board is using Digital Potentiometer IC YWBH3532FS.

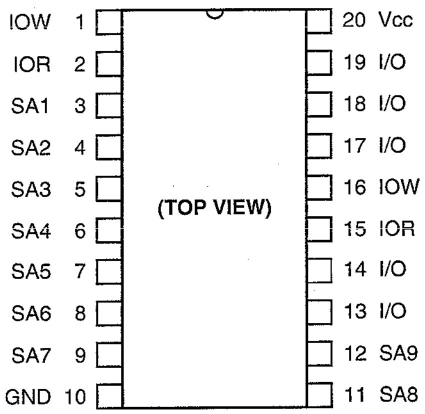
Description of this IC is as follows:


GND 1
N.C. 2
N.C. 3
H1 4
L1 5
W1 6
N.C. 7
EN 8
CLK 9
GND 10
(TOP VIEW)
20 VDD
19 N.C.
18 N.C.
17 N.C.
16 W0
15 H0
14 L0
13 N.C.
12 DOUT
11 DIN

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	N.C.	–	Non connection.
3	N.C.	–	Non connection.
4	H1	–	CH 1 Resistor Higher Conductive Point terminal.
5	LI	–	CH 1 Resistor Lower Conductive Point terminal.
6	W1	–	CH 1 Resistor Sliding Contact Point terminal.
7	N.C.	–	Non connection.
8	EN	I	Write Enable signal input terminal.
9	CLK	I	Clock Pulse input terminal.
10	GND	–	Ground terminal.
11	DIN	I	Serial Data input terminal.
12	DOUT	O	Serial Data output terminal.
13	N.C.	–	Non connection.
14	H0	–	CH 0 Resistor Higher Conductive Point terminal.
15	L0	–	CH 0 Resistor Lower Conductive Point terminal.
16	W0	–	CH 0 Resistor Sliding Contact Point terminal.
17	N.C.	–	Non connection.
18	N.C.	–	Non connection.
19	N.C.	–	Non connection.
20	VDD	–	Power supply terminal.

1.7. U27 on the Audio Board, U1 on the JPEG/SCSI Board (JPEG Section) and U1 on the JPEG/SCSI Board (SCSI Section) are using Logic Control IC YW16V 8AV04A.

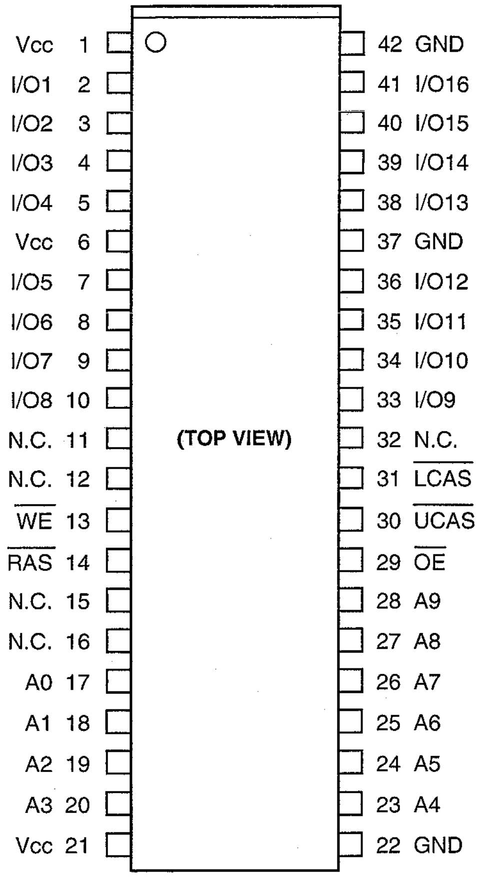
Description of this IC is as follows:


IOW 1
IOR 2
SA1 3
SA2 4
SA3 5
SA4 6
SA5 7
SA6 8
SA7 9
GND 10
(TOP VIEW)
20 Vcc
19 I/O
18 I/O
17 I/O
16 IOW
15 IOR
14 I/O
13 I/O
12 SA9
11 SA8

Pin	Name	I/O	Description
1	IOW	I	IOW signal input terminal.
2	IOR	I	IOR signal input terminal.
3	SA1	I	SA signal input terminals. (9-Bit)
4	SA2	I	
5	SA3	I	
6	SA4	I	
7	SA5	I	
8	SA6	I	
9	SA7	I	
10	GND	–	Ground terminal.
11	SA8	I	SA signal input terminals. (9-Bit)
12	SA9	I	
13	I/O	I/O	Control signal input/output terminals.
14	I/O	I/O	
15	IOR	O	IOR signal output terminal.
16	IOW	O	IOW signal output terminal.
17	I/O	I/O	Control signal input/output terminals.
18	I/O	I/O	
19	I/O	I/O	
20	Vcc	–	Power supply terminal.

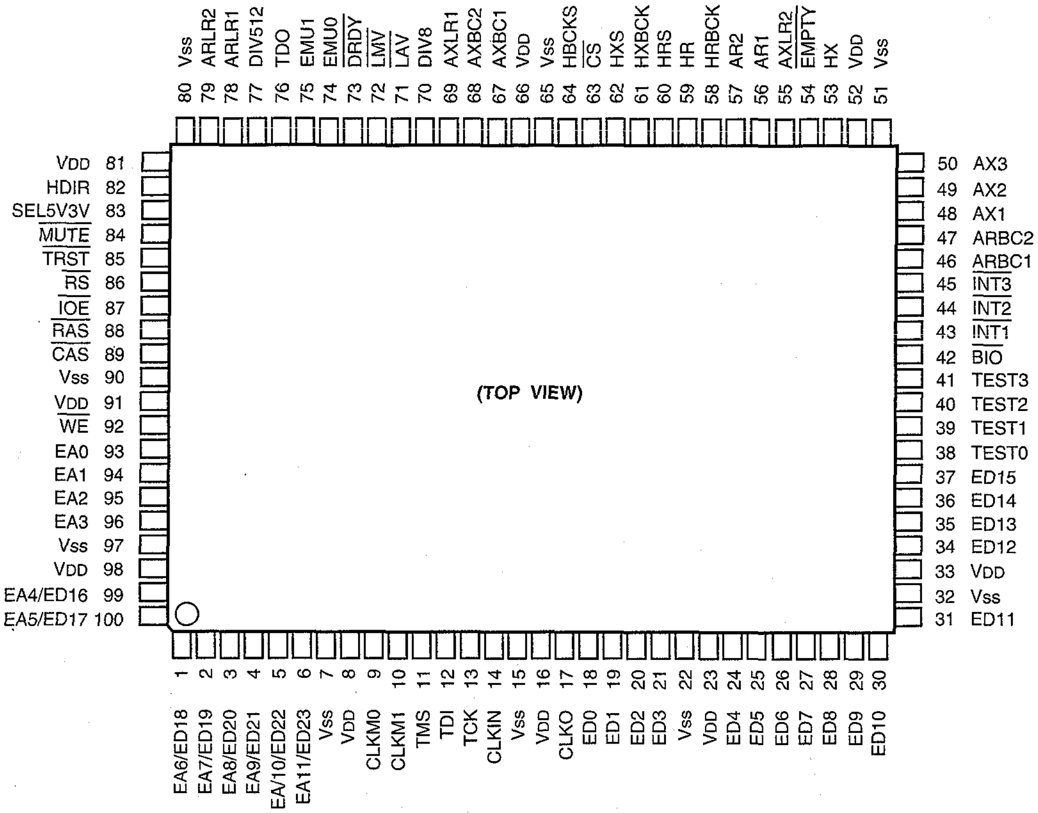
1.8. U68 and U72 on the Audio Board and U53, U54, U253 and U254 on the JPEG/SCSI Board (JPEG Section) are using 16M-Bit IC UPD421816560.

Description of this IC is as follows:


Vcc 1
I/O1 2
I/O2 3
I/O3 4
I/O4 5
Vcc 6
I/O5 7
I/O6 8
I/O7 9
I/O8 10
N.C. 11
N.C. 12
$\overline{\text{WE}}$ 13
$\overline{\text{RAS}}$ 14
N.C. 15
N.C. 16
A0 17
A1 18
A2 19
A3 20
Vcc 21
(TOP VIEW)
42 GND
41 I/O16
40 I/O15
39 I/O14
38 I/O13
37 GND
36 I/O12
35 I/O11
34 I/O10
33 I/O9
32 N.C.
31 $\overline{\text{LCAS}}$
30 $\overline{\text{UCAS}}$
29 $\overline{\text{OE}}$
28 A9
27 A8
26 A7
25 A6
24 A5
23 A4
22 GND

Pin	Name	I/O	Description
1	Vcc	–	Power supply terminal.
2	I/O1	I/O	Data Bus terminals. (16-Bit)
3	I/O2	I/O	
4	I/O3	I/O	
5	I/O4	I/O	
6	Vcc	–	Power supply terminal.
7	I/O5	I/O	Data Bus terminals. (16-Bit)
8	I/O6	I/O	
9	I/O7	I/O	
10	I/O8	I/O	
11	N.C.	–	Non connection.
12	N.C.	–	Non connection.
13	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
14	$\overline{\text{RAS}}$	I	Row Address Strobe Pulse input terminal.
15	N.C.	–	Non connection.
16	N.C.	–	Non connection.
17	A0	I	Address signal input terminals. (10-Bit)
18	A1	I	
20	A3	I	Address signal input terminals. (10-Bit)
21	Vcc	–	Power supply terminal.
22	GND	–	Ground terminal.
23	A4	I	Address signal input terminals. (10-Bit)
24	A5	I	
25	A6	I	
26	A7	I	
27	A8	I	
28	A9	I	
29	$\overline{\text{OE}}$	I	Output Enable signal input terminal.
30	$\overline{\text{UCAS}}$	I	Upper Column Address Strobe Pulse input terminal.
31	$\overline{\text{LCAS}}$	I	Lower Column Address Strobe Pulse input terminal.
32	N.C.	–	Non connection.
33	I/O9	I/O	Data Bus terminals. (16-Bit)
34	I/O10	I/O	
35	I/O11	I/O	
36	I/O12	I/O	
37	GND	–	Ground terminal.
38	I/O13	I/O	Data Bus terminals. (16-Bit)
39	I/O14	I/O	
40	I/O15	I/O	
41	I/O16	I/O	
42	GND	–	Ground terminal.

1.9. U67 on the Audio Board is using Digital Signal Processor IC TMS57070.
Description of this IC is as follows:


Vss 80
ARLR2 79
ARLR1 78
DIV512 77
TDO 76
EMU1 75
EMU0 74
DRDY 73
LMV 72
LAV 71
DIV8 70
AXLR1 69
AXBC2 68
AXBC1 67
VDD 66
Vss 65
HBCKS 64
CS 63
HXS 62
HXBCK 61
HRS 60
HR 59
HRBCK 58
AR2 57
AR1 56
AXLR2 55
EMPTY 54
HX 53
VDD 52
Vss 51
VDD 81
HDIR 82
SEL5V3V 83
MUTE 84
TRST 85
RS 86
IOE 87
RAS 88
CAS 89
Vss 90
VDD 91
WE 92
EA0 93
EA1 94
EA2 95
EA3 96
Vss 97
VDD 98
EA4/ED16 99
EA5/ED17 100
50 AX3
49 AX2
48 AX1
47 ARBC2
46 ARBC1
45 INT3
44 INT2
43 INT1
42 BIO
41 TEST3
40 TEST2
39 TEST1
38 TEST0
37 ED15
36 ED14
35 ED13
34 ED12
33 VDD
32 Vss
31 ED11
(TOP VIEW)
1 EA6/ED18
2 EA7/ED19
3 EA8/ED20
4 EA9/ED21
5 EA10/ED22
6 EA11/ED23
7 Vss
8 VDD
9 CLKM0
10 CLKM1
11 TMS
12 TDI
13 TCK
14 CLKIN
15 Vss
16 VDD
17 CLKO
18 ED0
19 ED1
20 ED2
21 ED3
22 Vss
23 VDD
24 ED4
25 ED5
26 ED6
27 ED7
28 ED8
29 ED9
30 ED10

Pin	Name	I/O	Description
1	EA6/ED18	I/O	External Memory Address Bus/ External I/O Bus terminals.
2	EA7/ED19	I/O	
3	EA8/ED20	I/O	
4	EA9/ED21	I/O	
5	EA10/ED22	I/O	
6	EA11/ED23	I/O	
7	Vss	–	Ground terminal.
8	VDD	–	Power supply terminal.
9	CLKM0	I	Clock Pulse Mode select terminals.
10	CLKM1	I	
11	TMS	I	Test Access Port Mode Select signal input terminal.
12	TDI	I	Test Access Port Data input terminal.
13	TCK	I	Test Access Port Clock Pulse input terminal.
14	CLKIN	I	Clock Pulse input terminal.
15	Vss	–	Ground terminal.
16	VDD	–	Power supply terminal.
17	CLKO	O	Clock Pulse output terminal.
18	ED0	I/O	External Memory and I/O Bus terminals.
19	ED1	I/O	

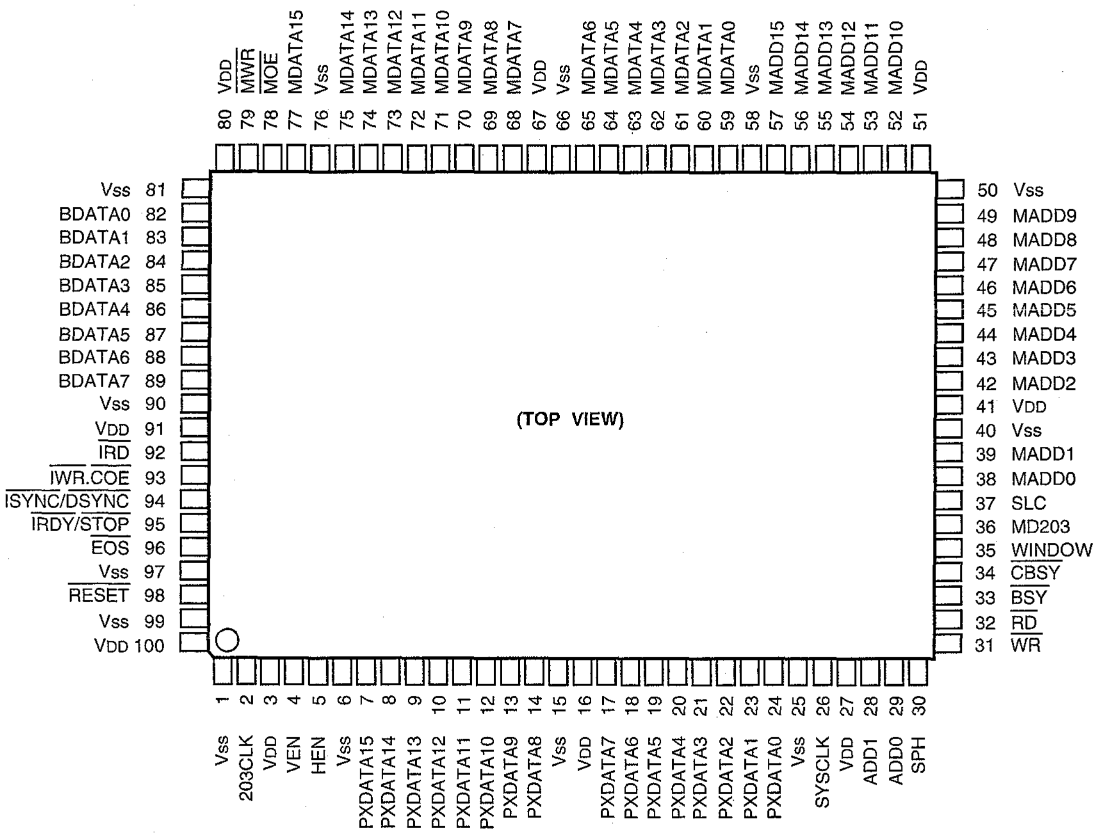
Pin	Name	I/O	Description
20	ED2	I/O	External Memory and I/O Bus terminals.
21	ED3	I/O	
22	Vss	–	Ground terminal.
23	VDD	–	Power supply terminal.
24	ED4	I/O	External Memory and I/O Bus terminals.
25	ED5	I/O	
26	ED6	I/O	
27	ED7	I/O	
28	ED8	I/O	
29	ED9	I/O	
30	ED10	I/O	
31	ED11	I/O	
32	Vss	–	Ground terminal.
33	VDD	–	Power supply terminal
34	ED12	I/O	External Memory and I/O Bus terminals.
35	ED13	I/O	
36	ED14	I/O	
37	ED15	I/O	
38	TEST0	I	Test Mode Control signal input terminals.
39	TEST1	I	

Pin	Name	I/O	Description
40	TEST2	I	Test Mode Control signal input terminals.
41	TEST2	I	
42	$\overline{\text{BIO}}$	I	Junction Control signal input terminal.
43	$\overline{\text{INT1}}$	I	Interrupt signal input terminals.
44	$\overline{\text{INT2}}$	I	
45	$\overline{\text{INT3}}$	I	
46	ARBC1	I	Audio Data Receive Unit Bit Clock Pulse input terminals.
47	ARBC2	I	
48	AX1	O	Audio Data Transmit Unit Bit Clock Pulse input terminals.
49	AX2	O	
50	AX3	O	
51	Vss	–	Ground terminal.
52	VDD	–	Power supply terminal
53	HX	O	Host Interface Data output terminal.
54	$\overline{\text{EMPTY}}$	O	CMEM Up Date Buffer and HR Register Empty Flag signal output terminal.
55	AXLR2	I	Lefet/Right channel Frame Sync signal input terminal for Audio Data Transmit Unit 2/3.
56	AR1	I	Audio Data Receive Unit Data input terminals.
57	AR2	I	
58	HRBCK	I	Host Interface Receive Clock Pulse input terminal.
59	HR	I	Host Interface Data input terminal.
60	HRS	I	Host Interface Receive Data input Frame Sync signal input terminal.
61	HXBCK	I	Host Interface Transmit Clock Pulse input terminal.
62	HXS	I	Host Interface Transmit Data input Frame Sync signal input terminal.
63	$\overline{\text{CS}}$	I	Host Interface Chip Select signal input terminal.
64	HBCKS	I	HRBCK/HXBCK Active Edge Select signal input terminal.
65	Vss	–	Ground terminal.
66	VDD	–	Power supply terminal
67	AXBC1	I	Audio Data Transmit Unit Bit Clock Pulse input terminals.
68	AXBC2	I	
69	AXLR1	I	Lefet/Right channel Frame Sync signal input terminal for Audio Data Transmit Unit 1.
70	DIV8	O	1/8 Divider Clock Pulse output terminal.
71	$\overline{\text{LAV}}$	O	Latch ALU Overflow Flag signal output terminal.
72	$\overline{\text{LMV}}$	O	Latch MAC Overflow Flag signal output terminal.
73	$\overline{\text{DRDY}}$	O	Host Interface Transmit Data Ready Flag signal output terminal.
74	EMU0	I/O	Emulator Interrupt signal input/output terminals.
75	EMU1	I/O	

Pin	Name	I/O	Description
76	TDO	O	Test Access Port Data output terminal.
77	DIV512	O	1/512 Divider Clock Pulse output terminal.
78	ARLR1	I	Lefet/Right channel Frame Sync signal input terminal for Audio Data Receive Units.
79	ARLR2	I	
80	Vss	–	Ground terminal.
81	VDD	–	Power supply terminal
82	HDIR	I	Host Interface Data Format Select signal
83	SEL5V3V	I	Input Level Control signal input terminal.
84	$\overline{\text{MUTE}}$	I	Mute signal input terminal.
85	$\overline{\text{TRST}}$	I	Test Access Port Reset Pulse input terminal.
86	$\overline{\text{RS}}$	I	Hardware Reset Pulse input terminal.
87	$\overline{\text{IOE}}$	O	External I/O Enable signal output terminal.
88	RAS	O	External DRAM Row Address Strobe signal output terminal.
89	CAS	O	External DRAM Column Address Strobe ignal output terminal.
90	Vss	–	Ground terminal.
91	VDD	–	Power supply terminal
92	$\overline{\text{WE}}$	O	Write Enable signal output terminal.
93	EA0	O	External Memory and I/O Address Bus terminals.
94	EA1	O	
95	EA2	O	
96	EA3	O	
97	Vss	–	Ground terminal.
98	VDD	–	Power supply terminal
99	EA4/ED16	I/O	External Memory Address Bus/ External I/O Bus terminals.
100	EA5/ED17	I/O	

2. JPEG/SCSI Board (JPEG Section)

2.1. U33 and U233 on the JPEG/SCSI Board (JPEG Section) are using the Memory Controller IC YWMD0205. Description of this IC is as follows:

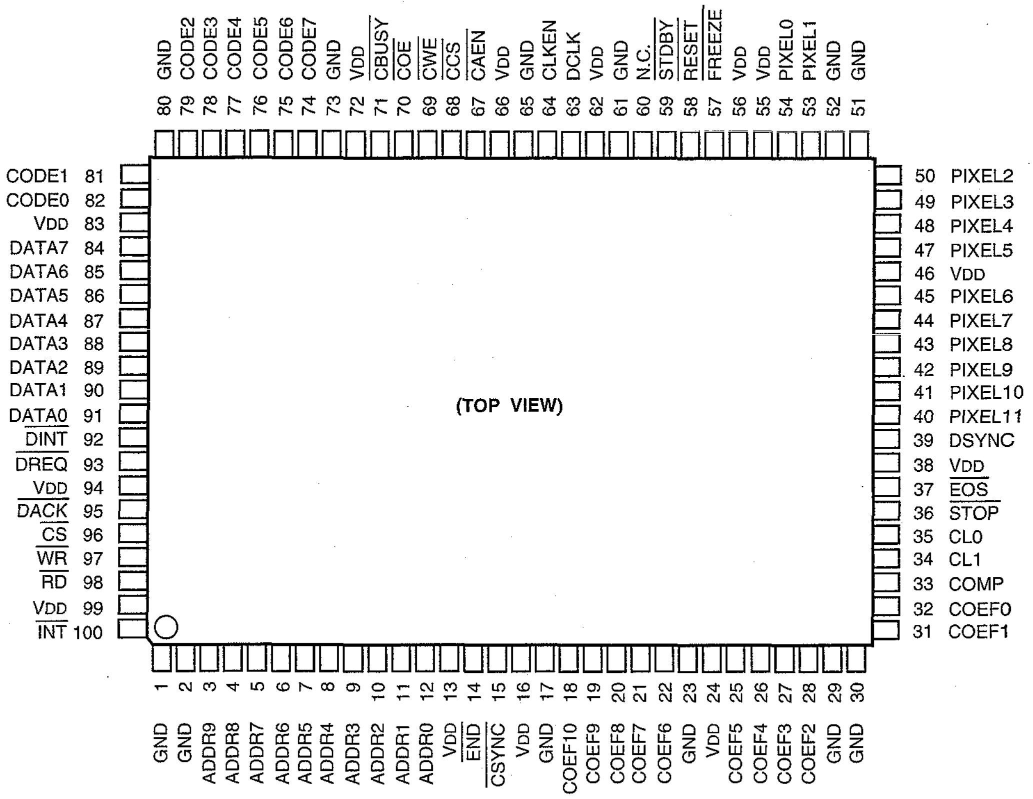

80 VDD
79 MWR
78 MOE
77 MDATA15
76 Vss
75 MDATA14
74 MDATA13
73 MDATA12
72 MDATA11
71 MDATA10
70 MDATA9
69 MDATA8
68 MDATA7
67 VDD
66 Vss
65 MDATA6
64 MDATA5
63 MDATA4
62 MDATA3
61 MDATA2
60 MDATA1
59 MDATA0
58 Vss
57 MADD15
56 MADD14
55 MADD13
54 MADD12
53 MADD11
52 MADD10
51 VDD
Vss 81
BDATA0 82
BDATA1 83
BDATA2 84
BDATA3 85
BDATA4 86
BDATA5 87
BDATA6 88
BDATA7 89
Vss 90
VDD 91
IRD 92
IWR.COE 93
ISYNC/DSYNC 94
IRDY/STOP 95
EOS 96
Vss 97
RESET 98
Vss 99
VDD 100
(TOP VIEW)
50 Vss
49 MADD9
48 MADD8
47 MADD7
46 MADD6
45 MADD5
44 MADD4
43 MADD3
42 MADD2
41 VDD
40 Vss
39 MADD1
38 MADD0
37 SLC
36 MD203
35 WINDOW
34 CBSY
33 BSY
32 RD
31 WR
1 Vss
2 203CLK
3 VDD
4 VEN
5 HEN
6 Vss
7 PXDATA15
8 PXDATA14
9 PXDATA13
10 PXDATA12
11 PXDATA11
12 PXDATA10
13 PXDATA9
14 PXDATA8
15 Vss
16 VDD
17 PXDATA7
18 PXDATA6
19 PXDATA5
20 PXDATA4
21 PXDATA3
22 PXDATA2
23 PXDATA1
24 PXDATA0
25 Vss
26 SYSCLK
27 VDD
28 ADD1
29 ADD0
30 SPH

Pin	Name	I/O	Description
1	Vss	–	Ground terminal.
2	203CLK	O	Clock Pulse output terminal.
3	VDD	–	Power supply terminal.
4	VEN	I	VEN signal input terminal.
5	HEN	I	HEN signal input terminal.
6	Vss	–	Ground terminal.
7	PXDATA15	I/O	Pixel Data Bus terminals. (16-Bit)
8	PXDATA14	I/O	
9	PXDATA13	I/O	
10	PXDATA12	I/O	
11	PXDATA11	I/O	
12	PXDATA10	I/O	
13	PXDATA9	I/O	
14	PXDATA8	I/O	
15	Vss	–	Ground terminal.
16	VDD	–	Power supply terminal.
17	PXDATA7	I/O	Pixel Data Bus terminals. (16-Bit)
18	PXDATA6	I/O	
19	PXDATA5	I/O	
20	PXDATA4	I/O	

Pin	Name	I/O	Description
21	PXDATA3	I/O	Pixel Data Bus terminals. (16-Bit)
22	PXDATA2	I/O	
23	PXDATA1	I/O	
24	PXDATA0	I/O	
25	Vss	–	Ground terminal.
26	SYSCLK	I	System Clock Pulse input terminal.
27	VDD	–	Power supply terminal.
28	ADD1	I	Address signal input terminals.
29	ADD0	I	
30	SPH	I	SPH signal input terminal.
31	$\overline{\text{WR}}$	I	Write signal input terminal.
32	$\overline{\text{RD}}$	I	Read signal input terminal.
33	$\overline{\text{BSY}}$	O	Busy signal input terminal.
34	$\overline{\text{CBSY}}$	O	Busy signal input terminal.
35	WINDOW	O	Window signal input terminal.
36	MD203	I	MD203 signal input terminal.
37	SLC	I	SLC signal input terminal.
38	MADD0	O	M Address signal output terminals. (16-Bit)
39	MADD1	O	
40	Vss	–	Ground terminal.

Pin	Name	I/O	Description
41	VDD	–	Power supply terminal.
42	MADD2	O	M Address signal output terminals. (16-Bit)
43	MADD3	O	
44	MADD4	O	
45	MADD5	O	
46	MADD6	O	
47	MADD7	O	
48	MADD8	O	
49	MADD9	O	
50	Vss	–	Ground terminal.
51	VDD	–	Power supply terminal.
52	MADD10	O	M Address signal output terminals. (16-Bit)
53	MADD11	O	
54	MADD12	O	
55	MADD13	O	
56	MADD14	O	
57	MADD15	O	
58	Vss	–	Ground terminal.
59	MDATA0	I/O	M Data Bus terminals. (16-Bit)
60	MDATA1	I/O	
61	MDATA2	I/O	
62	MDATA3	I/O	
63	MDATA4	I/O	
64	MDATA5	I/O	
65	MDATA6	I/O	
66	Vss	–	Ground terminal.
67	VDD	–	Power supply terminal.
68	MDATA7	I/O	M Data Bus terminals. (16-Bit)
69	MDATA8	I/O	
70	MDATA9	I/O	
71	MDATA10	I/O	
72	MDATA11	I/O	
73	MDATA12	I/O	
74	MDATA13	I/O	
75	MDATA14	I/O	
76	Vss	–	Ground terminal.
77	MDATA15	I/O	M Data Bus terminals. (16-Bit)
78	$\overline{MOE}$	O	M Output Enable signal output terminal.
79	$\overline{MWE}$	O	M Write Enable signal output terminal.
80	VDD	–	Power supply terminal.
81	Vss	–	Ground terminal.
82	BDATA0	I/O	B Data Bus terminals. (8-Bit)
83	BDATA1	I/O	
84	BDATA2	I/O	
85	BDATA3	I/O	
86	BDATA4	I/O	
87	BDATA5	I/O	B Data Bus terminals. (8-Bit)
88	BDATA6	I/O	
89	BDATA7	I/O	
90	Vss	–	Ground terminal.
91	VDD	–	Power supply terminal.
92	$\overline{IRD}$	O	I Read signal output terminal.
93	$\overline{IWR}$.$\overline{COE}$	I/O	I Write.COE signal input/output terminal.
94	$\overline{ISYNC}$/ $\overline{DSYNC}$	I/O	Sync signal input/output terminal.
95	$\overline{IRDY}$/ $\overline{STOP}$	I/O	I Ready/Stop signal input/output terminal.
96	$\overline{EOS}$	I/O	EOS signal input/output terminal.
97	Vss	–	Ground terminal.
98	$\overline{RESET}$	I	Reset Pulse input terminal.
99	Vss	–	Ground terminal.
100	VDD	–	Power supply terminal

2.2. U34 and U234 on the JPEG/SCSI Board (JPEG Section) are using the JPEG IC YWMD36050X27. Description of this IC is as follows:


(TOP VIEW)
80 GND
79 CODE2
78 CODE3
77 CODE4
76 CODE5
75 CODE6
74 CODE7
73 GND
72 VDD
71 CBUSY
70 COE
69 CWE
68 CCS
67 CAEN
66 VDD
65 GND
64 CLKEN
63 DCLK
62 VDD
61 GND
60 N.C.
59 STDBY
58 RESET
57 FREEZE
56 VDD
55 VDD
54 PIXEL0
53 PIXEL1
52 GND
51 GND
CODE1 81
CODE0 82
VDD 83
DATA7 84
DATA6 85
DATA5 86
DATA4 87
DATA3 88
DATA2 89
DATA1 90
DATA0 91
DINT 92
DREQ 93
VDD 94
DACK 95
CS 96
WR 97
RD 98
VDD 99
INT 100
50 PIXEL2
49 PIXEL3
48 PIXEL4
47 PIXEL5
46 VDD
45 PIXEL6
44 PIXEL7
43 PIXEL8
42 PIXEL9
41 PIXEL10
40 PIXEL11
39 DSYNC
38 VDD
37 EOS
36 STOP
35 CL0
34 CL1
33 COMP
32 COEF0
31 COEF1
1 GND
2 GND
3 ADDR9
4 ADDR8
5 ADDR7
6 ADDR6
7 ADDR5
8 ADDR4
9 ADDR3
10 ADDR2
11 ADDR1
12 ADDR0
13 VDD
14 END
15 CSYNC
16 VDD
17 GND
18 COEF10
19 COEF9
20 COEF8
21 COEF7
22 COEF6
23 GND
24 VDD
25 COEF5
26 COEF4
27 COEF3
28 COEF2
29 GND
30 GND

Pin	Name	I/O	Description
1	GND	–	Ground terminal.
2	GND	–	Ground terminal.
3	ADDR9	I	Address signal input terminals. (10-Bit)
4	ADDR8	I	
5	ADDR7	I	
6	ADDR6	I	
7	ADDR5	I	
8	ADDR4	I	
9	ADDR3	I	
10	ADDR2	I	
11	ADDR1	I	
12	ADDR0	I	
13	VDD	–	Power supply terminal.
14	$\overline{\text{END}}$	O	Compress/Expand End Flag signal output terminal.
15	$\overline{\text{CSYNC}}$	O	COEF Start Flag signal output terminal.
16	VDD	–	Power supply terminal.
17	GND	–	Ground terminal.
18	COEF10	O	DCT Coefficient Data output terminals. (11-Bit)
19	COEF9	O	
20	COEF8	O	

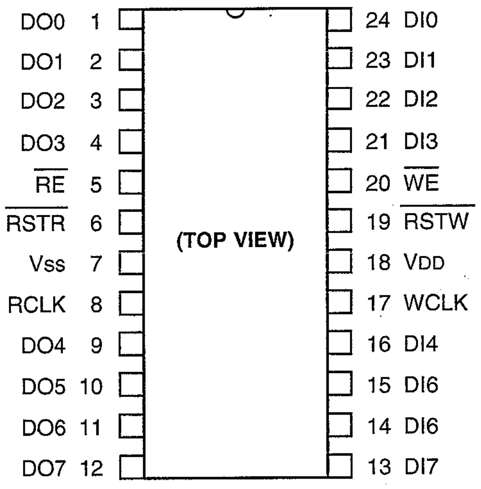
Pin	Name	I/O	Description
21	COEF7	O	DCT Coefficient Data output terminals. (11-Bit)
22	COEF6	O	
23	GND	–	Ground terminal.
24	VDD	–	Power supply terminal.
25	COEF5	O	DCT Coefficient Data output terminals. (11-Bit)
26	COEF4	O	
27	COEF3	O	
28	COEF2	O	
29	GND	–	Ground terminal.
30	GND	–	Ground terminal.
31	COEF1	O	DCT Coefficient Data output terminals. (11-Bit)
32	COEF0	O	
33	COMP	O	Internal Status Flag signal output terminal.
34	CL1	O	MCU Component Flag signal output terminals.
35	CL0	O	
36	$\overline{\text{STOP}}$	I/O	Data Control signal input/output terminal.
37	$\overline{\text{EOS}}$	I/O	Block End signal input/output terminal.
38	VDD	–	Power supply terminal.
39	$\overline{\text{DSYNC}}$	I/O	Block Start signal input/output terminal.

Pin	Name	I/O	Description
40	PIXEL11	I/O	Pixel Data Bus terminals. (12-Bit)
41	PIXEL10	I/O	
42	PIXEL9	I/O	
43	PIXEL8	I/O	
44	PIXEL7	I/O	
45	PIXEL6	I/O	
46	VDD	–	Power supply terminal.
47	PIXEL5	I/O	Pixel Data Bus terminals. (12-Bit)
48	PIXEL4	I/O	
49	PIXEL3	I/O	
50	PIXEL2	I/O	
51	GND	–	Ground terminal.
52	GND	–	Ground terminal.
53	PIXEL1	I/O	Pixel Data bus terminals. (12-Bit)
54	PIXEL0	I/O	
55	VDD	–	Power supply terminal
56	VDD	–	Power supply terminal
57	FREEZE	I	Freeze signal input terminal.
58	RESET	I	Reset Pulse input terminal.
59	STDBY	I	Standby signal input terminal.
60	N.C.	–	Non connection.
61	GND	–	Ground terminal.
62	VDD	–	Power supply terminal.
63	DCLK	I	Clock Pulse input terminal.
64	CLKEN	I	Clock Enable signal input terminal.
65	GND	–	Ground terminal.
66	VDD	–	Power supply terminal.
67	CAEN	O	External Counter Enable signal output terminal for Code Bus.
68	CCS	O	Chip Select signal output terminal for Code Bus.
69	CWE	O	Compress Data Write signal output terminal.
70	COE	O	Compress Data Read signal output terminal.
71	CBUSY	I	Code Bus Control signal input terminal.
72	VDD	–	Power supply terminal.
73	GND	–	Ground terminal.
74	CODE7	I/O	Code Data Bus terminals. (8-Bit)
75	CODE6	I/O	
76	CODE5	I/O	
77	CODE4	I/O	
78	CODE3	I/O	
79	CODE2	I/O	
80	GND	–	Ground terminal.
81	CODE1	I/O	Code Data Bus terminals. (8-Bit)
82	CODE0	I/O	
83	VDD	–	Power supply terminal.

Pin	Name	I/O	Description
84	DATA7	I/O	Host Data Bus terminals. (8-Bit)
85	DATA6	I/O	
86	DATA5	I/O	
87	DATA4	I/O	
88	DATA3	I/O	
89	DATA2	I/O	
90	DATA1	I/O	
91	DATA0	I/O	
92	DINT	O	Data Interrupt signal output terminal.
93	DREQ	O	DMA Request signal output terminal.
94	VDD	–	Power supply terminal.
95	DACK	I	DMA Acknowledge signal input terminal.
96	CS	I	Chip Select signal input terminal.
97	WR	I	Write signal input terminal.
98	RD	I	Read signal input terminal.
99	VDD	–	Power supply terminal.
100	INT	O	Interrupt signal output terminal.

2.3. U11 on the JPEG/SCSI Board (JPEG Section) is using the 1,135-Word x 8-Bit FIFO High Speed Line Buffer IC UPD42102G3.

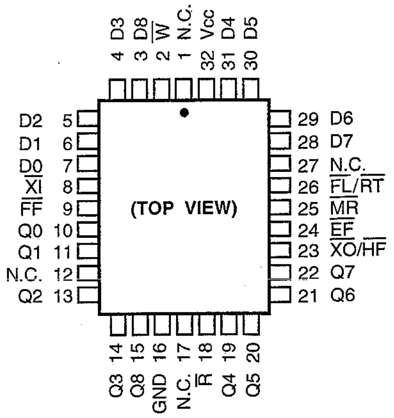
Description of this IC is as follows:


DO0 1
DO1 2
DO2 3
DO3 4
$\overline{\text{RE}}$ 5
$\overline{\text{RSTR}}$ 6
Vss 7
RCLK 8
DO4 9
DO5 10
DO6 11
DO7 12
(TOP VIEW)
24 DI0
23 DI1
22 DI2
21 DI3
20 $\overline{\text{WE}}$
19 $\overline{\text{RSTW}}$
18 VDD
17 WCLK
16 DI4
15 DI6
14 DI6
13 DI7

Pin	Name	I/O	Description
1	DO0	O	Data output terminals. (8-Bit)
2	DO1	O	
3	DO2	O	
4	DO3	O	
5	$\overline{\text{RE}}$	I	Read Enable signal input terminal.
6	$\overline{\text{RSTR}}$	I	Reset Read pulse input terminal.
7	Vss	–	Ground terminal.
8	RCLK	I	Read Clock pulse input terminal.
9	DO4	O	Data output terminals. (8-Bit)
10	DO5	O	
11	DO6	O	
12	DO7	O	
13	DI7	I	Data input terminals. (8-Bit)
14	DI6	I	
15	DI5	I	
16	DI4	I	
17	WCLK	I	Write Clock pulse input terminal.
18	VDD	–	Power supply terminal.
19	$\overline{\text{RSTW}}$	I	Reset Write Pulse input terminal.
20	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
21	DI3	I	Data input terminals. (8-Bit)
22	DI2	I	
23	DI1	I	
24	DI0	I	

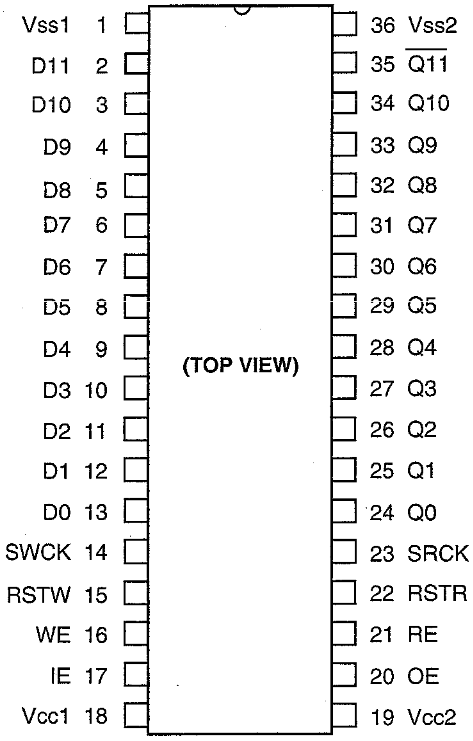
2.4. U41, U48 and U241 on the JPEG/SCSI Board (JPEG Section) are using the 512-Word x 9-Bit FIFO Memory IC CY7C421-10JC.

Description of this IC is as follows:


D3 4
D8 3
$\overline{\text{W}}$ 2
N.C. 1
Vcc 32
D4 31
D5 30
D2 5
D1 6
D0 7
$\overline{\text{XI}}$ 8
$\overline{\text{FF}}$ 9
Q0 10
Q1 11
N.C. 12
Q2 13
(TOP VIEW)
29 D6
28 D7
27 N.C.
26 $\overline{\text{FL}}/\overline{\text{RT}}$
25 $\overline{\text{MR}}$
24 $\overline{\text{EF}}$
23 $\overline{\text{XO}}/\overline{\text{HF}}$
22 Q7
21 Q6
14 Q3
15 Q8
16 GND
17 N.C.
18 $\overline{\text{R}}$
19 Q4
20 Q5

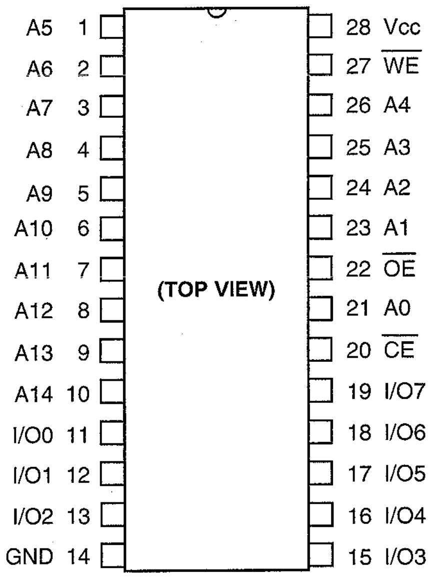
Pin	Name	I/O	Description
1	N.C.	–	Non connection.
2	$\overline{\text{W}}$	I	Write Control signal input terminal.
3	D8	I	Data input terminals. (9-Bit)
4	D3	I	
5	D2	I	
6	D1	I	
7	D0	I	
8	$\overline{\text{XI}}$	I	Expantion In signal input terminal.
9	$\overline{\text{FF}}$	O	Full Flag signal output terminal.
10	Q0	O	Data output terminals (9-Bit)
11	Q1	O	
12	N.C.	–	Non connection.
13	Q2	O	Data output terminals (9-Bit)
14	Q3	O	
15	Q8	O	
16	GND	–	Ground terminal.
17	N.C.	–	Non connection.
18	$\overline{\text{R}}$	I	Read Control signal input terminal.
19	Q4	O	Data output terminals (9-Bit)
20	Q5	O	
21	Q6	O	
22	Q7	O	
23	$\overline{\text{XO}}/\overline{\text{HF}}$	O	Expantion Out/Half Full signal output terminal.
24	$\overline{\text{EF}}$	O	Empty Flag signal output terminal.
25	$\overline{\text{MR}}$	I	Master Reset Pulse input terminal.
26	$\overline{\text{FL}}/\overline{\text{RT}}$	I	First Load/Retransmit signal input terminal.
27	N.C.	–	Non connection.
28	D7	I	Data input terminals (9-Bit)
29	D6	I	
30	D5	I	
31	D4	I	
32	Vcc	–	Power supply terminal.

2.5. U15 on the JPEG/SCSI Board (JPEG Section) is using 2.9M-Bit (245,760-Word x 12-Bit) High Speed FIFO Field Memory IC TMS4C2972-26.
Description of this IC is as follows:


Vss1 1
D11 2
D10 3
D9 4
D8 5
D7 6
D6 7
D5 8
D4 9
D3 10
D2 11
D1 12
D0 13
SWCK 14
RSTW 15
WE 16
IE 17
Vcc1 18
(TOP VIEW)
36 Vss2
35 Q11
34 Q10
33 Q9
32 Q8
31 Q7
30 Q6
29 Q5
28 Q4
27 Q3
26 Q2
25 Q1
24 Q0
23 SRCK
22 RSTR
21 RE
20 OE
19 Vcc2

Pin	Name	I/O	Description
1	Vss1	–	Ground terminal.
2	D11	I	Data input terminals. (12-Bit)
3	D10	I	
4	D9	I	
5	D8	I	
6	D7	I	
7	D6	I	
8	D5	I	
9	D4	I	
10	D3	I	
11	D2	I	
12	D1	I	
13	D0	I	
14	SWCK	I	Serial Write Clock Pulse input terminal.
15	RSTW	I	Reset Write Pulse input terminal.
16	WE	I	Write Enable signal input terminal.
17	IE	I	Input Eenable signal input terminal.
18	Vcc1	–	Power supply terminal.
19	Vcc2	–	Power supply terminal.
20	OE	I	Output Enable signal input terminal.
21	RE	I	Read Enable signal input terminal.
22	RSTR	I	Reset Read Pulse input terminal.
23	SRCK	I	Serial Read Clock Pulse input terminal.
24	Q0	O	Data output terminals. (12-Bit)
25	Q1	O	
26	Q2	O	
27	Q3	O	
28	Q4	O	
29	Q5	O	
30	Q6	O	
31	Q7	O	
32	Q8	O	
33	Q9	O	
34	Q10	O	
35	Q11	O	
36	Vss2	–	Ground terminal.

2.5. U31, U32, U226, U227, U231 and U232 on the JPEG/SCSI Board (JPEG Section) are using the 32K-Word x 8-Bit Static RAM IC CY7C19915VC. Description of this IC is as follows:


A5 1
A6 2
A7 3
A8 4
A9 5
A10 6
A11 7
A12 8
A13 9
A14 10
I/O0 11
I/O1 12
I/O2 13
GND 14
(TOP VIEW)
28 Vcc
27 WE
26 A4
25 A3
24 A2
23 A1
22 OE
21 A0
20 CE
19 I/O7
18 I/O6
17 I/O5
16 I/O4
15 I/O3

Pin	Name	I/O	Description
1	A5	I	Address signal input terminals. (15-Bit)
2	A6	I	
3	A7	I	
4	A8	I	
5	A9	I	
6	A10	I	
7	A11	I	
8	A12	I	
9	A13	I	
10	A14	I	
11	I/O0	I/O	Data Bus terminals. (8-Bit)
12	I/O1	I/O	
13	I/O2	I/O	
14	GND	–	Ground terminal.
15	I/O3	I/O	DATA Bus terminals. (8-Bit)
16	I/O4	I/O	
17	I/O5	I/O	
18	I/O6	I/O	
19	I/O7	I/O	
20	$\overline{\text{CE}}$	I	Chip Enable signal input terminal.
21	A0	I	Address signal input terminal. (15-Bit)
22	$\overline{\text{OE}}$	I	Output Enable signal input terminal.
23	A1	I	Address signal input terminals. (15-Bit)
24	A2	I	
25	A3	I	
26	A4	I	
27	$\overline{\text{WE}}$	I	Write Enable signal input terminal.
28	Vcc	–	Power supply terminal.

ADJUSTMENT PROCEDURE

1. Test Equipment Required

- The following test Equipments are required for adjustment of the Upgrade Board WJ-PB1003E for WJ-MX1000K.
- Oscilloscope
- Frequency Counter
- Digital Voltmeter
- Waveform Monitor
- Vectorscope (with SC-H Function)
- Underscanned Colour Video Monitor
- Test Signal Generator (Colour Bar signal, Ramp signal and etc.)
- Extension Board (YWV0EA0356AN) for WJ-MX1000K
- Hard Disk Box WJ-EB1000

2. Disassembling Procedure for Adjustment

- Referring to Fig. 2-1, release both Front Panel Remove Buttons that secure the Front Panel and remove the Front Panel.

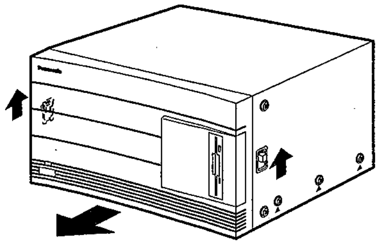


Fig. 2-1

- Referring to Fig.2-2, remove 4 screws that secure the Front Chassis and remove the Front Chassis.

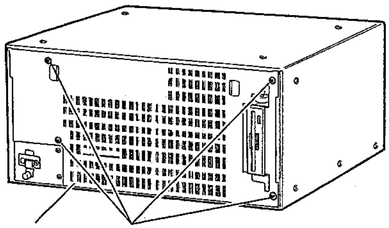


Fig. 2-2

- Replace the Audio Board, JPEG Board, SCSI Board and Protection Board with Fan as shown on pages 1 and 2.

3. Connection for Adjustment

- The Fig. 3-1 shows the connection diagram for the adjustment procedure.

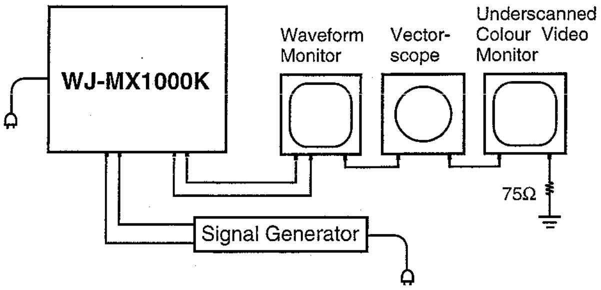


Fig. 3-1

- Connect the Hard Disk Box WJ-EB1000.
- Connect the Underscanned Colour Video Monitor through the Waveform Monitor and Vectorscope to either Y/C Video Output Connector or Composite Video Output Connector on the Rear Panel of the WJ-MX1000K.
- Terminate the input terminal of the Underscanned Colour Video Monitor with 75 Ω.
- Connect the probe of the Digital Voltmeter, Oscilloscope or Frequency Counter at the desired Test Point in each adjustment step.

- The adjustment should be done after 10 minutes warm-up.

4. Adjustment Procedure

- Refer to the Location of the Test Points and Adjusting Controls on page 29.

Note : All Adjustment Procedures of the Power Board, Mixer Board and Input Board are just same as the WJ-MX1000K except the Audio Board.

■ Power Board

(1). Power Good Signal Adjustment

Test Point:	**Pin 2 of CN3 (5V)**	**Power Board**
	Pin 1 of CN3 (P-GOOD)	**Power Board**
Adjust:	**VR1 (4.85V)**	**Power Board**
	VR3 (P-GOOD)	**Power Board**

- Connect the Digital Voltmeter to the pin 2 of CN3.
- Adjust VR1 to obtain 4.85V DC.
- Change the connection of the Digital Voltmeter to the pin 1 of CN3.
- Adjust VR3 so that the Power Good Signal level just changes from Low level to High level.
- Confirm that the changing point should be between 4.8V DC and 4.9V DC by adjusting of VR1.

(2). 5V Adjustment

Test Point:	**TP5 (5V)**	**Mixer Board**
Adjust:	**VR1 (5V)**	**Power Board**

- Connect the Digital Voltmeter to TP5 on the Mixer Board.
- Adjust VR1 to obtain 5 ± 0.02V DC.

(3). 12V Adjustment

Test Point:	**TP3 (12V)**	**Mixer Board**
Adjust:	**VR2 (12V)**	**Power Board**

- Connect the Digital Voltmeter to TP3 on the Mixer Board.
- Adjust VR2 to obtain 12 ± 0.05V DC.

■ Mixer Board

(4). Subcarrier Frequency Adjustment

Test Point:	**TP6 (FSC)**	**Mixer Board**
Adjust:	**VR202 (FSC)**	**Mixer Board**

- Connect the Frequency Counter to TP6.
- Adjust VR202 to obtain 17.734525 MHz ± 5 Hz.

(5). Ach VCO Adjustment

Test Point:	**TP1 (Ach VCO)**	**Mixer Board**
Adjust:	**L8 (Ach VCO)**	**Mixer Board**

- Executes the Manual Digitizer and set the Recording mode.
- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Digital Voltmeter to TP1.
- Adjust L8 to obtain 2.1 ± 0.1V DC.

(6). Bch VCO Adjustment

Test Point:	**TP2 (Bch VCO)**	**Mixer Board**
Adjust:	**L16 (Bch VCO)**	**Mixer Board**

- Set the SW1 and SW2 on the Pattern Side of the MIxer Board are as shown in Fig. 3-1.

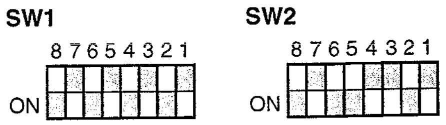


Fig. 3-1

- Executes the Manual Digitizer and set the Recording mode.
- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Digital Voltmeter to TP2.
- Adjust L16 to obtain 2.1 ± 0.1V DC.
- After completion of adjustment, set the SW1 and SW2 as shown in Fig. 3-2.

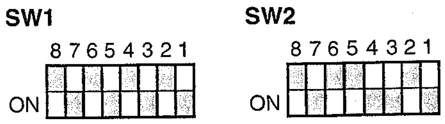


Fig. 3-2

■ **Before start to next steps, executes the Sequence Editor, then plays the Still Image of the Colour Bar (Setup = 0) by drag & drop the Colour Bar Eyecon to the Sequence Editor.**

(7). Output Y Gain Adjustment

Test Point:	**Video Out Y Connector**	**Rear Panel**
Adjust:	**VR701 (Y GAIN)**	**Mixer Board**

- Connect the Waveform Monitor to the Video Out Y Connector.
- Adjust VR701 so that the Y Level of the internal Colour Bar signal becomes 700 ± 7 mV as shown in Fig. 3-3.

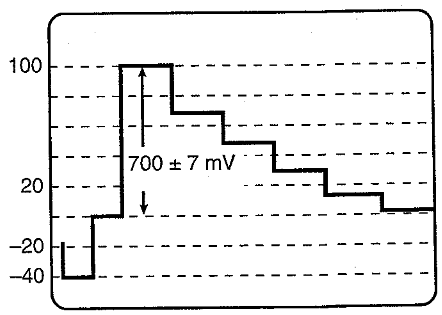


Fig. 3-3

(8). Output PB Gain Adjustment

Test Point: **Video Out PB Connector** **Rear Panel**

Adjust: **VR704 (PB GAIN)** **Mixer Board**

- Set the Video Out to MII Component by the Device Setting.
- Connect the terminated Oscilloscope with 75Ω to the Video Out PB Connector.
- Adjust VR704 so that the PB signal level of the build-in Colour Bar signal (Setup = 0) becomes 525 mV as shown in Fig. 3-4.

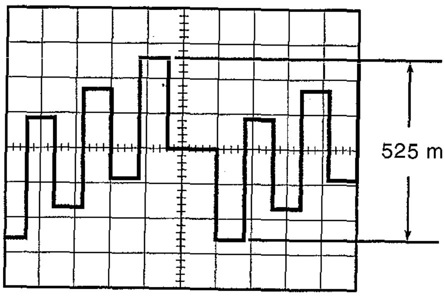


Fig. 3-4

(9). Output PR Gain Adjustment

Test Point: **Video Out PR Connector** **Rear Panel**

Adjust: **VR705 (PR GAIN)** **Mixer Board**

- Set the Video Out to MII Component by the Device Setting.
- Connect the terminated Oscilloscope with 75Ω to the Video Out PR Connector.
- Adjust VR705 so that the PR signal level (p-p) of the build-in Colour Bar signal (Setup = 0) becomes 525 mV as shown in Fig. 3-5.

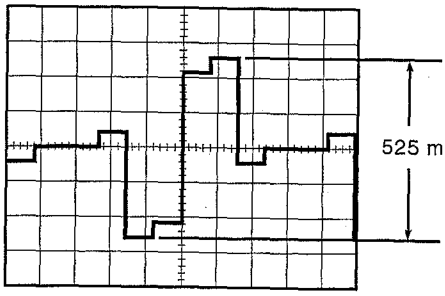


Fig. 3-5

(10). Output C Gain Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**

Adjust: **VR703 (C GAIN)** **Mixer Board**

- Connect the Vectorscope to the Video Out Y/C Connector.
- Adjust VR703 so that the Chrominance Gain and Phase are adjusted to proper position (± 3°, 3%) as shown in Fig. 3-6.

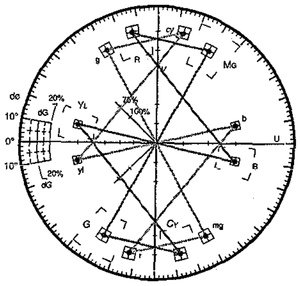


Fig. 3-6

(11). Composite Y Gain Adjustment

Test Point: **Video Out Composite Connector**

Rear Panel

Adjust: **VR702 (COMP Y)** **Mixer Board**

- Connect the Waveform Monitor to the Video Out Composite Connector.
- Adjust VR702 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-7.

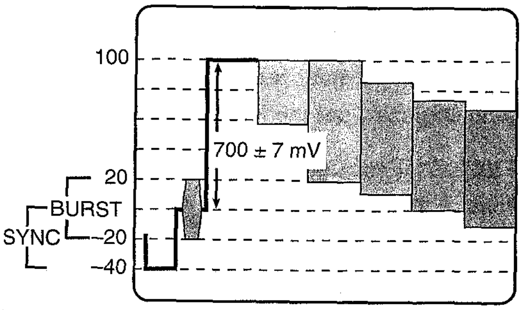


Fig. 3-7

(12). Composite C Gain Adjustment

Test Point: **Video Out Composite Connector**

Rear Panel

Adjust: **VR706 (COMP C)** **Mixer Board**

- Connect the Vectorscope to the Video Out Y/C Connector.
- Adjust VR706 so that the Chrominance Gain and Phase are adjusted to proper position (± 3°, 3%) as shown in Fig. 3-8.

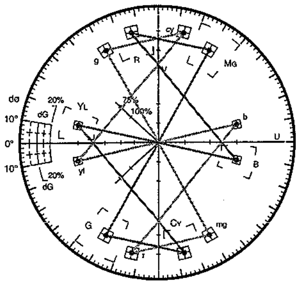


Fig. 3-8

(13). Output SC-H Adjustment

Test Point: **Video Out Composite Connector** **Rear Panel**

Adjust: **VR707 (SC-H)** **Mixer Board**

- Connect the Vectorscope (with SC-H function) to the Video Out Y/C Connector.
- Adjust VR707 so that the SC-H Phase becomes 0 ± 5°.

(14). ADV. REF. SC-H Adjustment

Test Point: **ADV. REF. Out Connector** **Rear Panel**

Adjust: **VR708 (ADV.REF.)** **Mixer Board**

- Connect the Vectorscope (with SC-H function) to the ADV. REF. Out Connector.
- Adjust VR708 so that the SC-H Phase becomes 0 ± 5°.

■ Input Board

■ Before start to adjust the Input Board, executes the Manual Digitizer, set the Record mode.

(15). FVCXO1 Frequency Adjustment

Test Point: **TP202 (FVCXO1)** **Input Board**

Adjust: **CT201 (FVCXO1)** **Input Board**

- Disconnect all input from the WJ-MX1000K.
- Connect the Frequency Counter to TP202.
- Adjust CT201 to obtain 4.433624 MHz ± 5 Hz.

(16). FVCXO2 Frequency Adjustment

Test Point: **TP206 (FVCXO2)** **Input Board**

Adjust: **CT202 (FVCXO2)** **Input Board**

- Disconnect all input from the WJ-MX1000K.
- Connect the Frequency Counter to TP206.
- Adjust CT202 to obtain 4.433624 MHz ± 5 Hz.

(17). Component Carrier Balance Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**

Adjust: **VR222 (COMP CAR BAL-1)** **Input Board**

VR224 (COMP CAR BAL-2) **Input Board**

- Select the CH1-Component Input by the Device setting, and supply the Colour Bar signal to the Component Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Set the Mode Selection Switch of the Vectorscope to the NTSC mode.
- Set the Gain Control of the Vectorscope to the maximum.
- Adjust VR222 and VR224 so that the vector positions at the center of the Vectorscope as shown in Fig. 3-9.

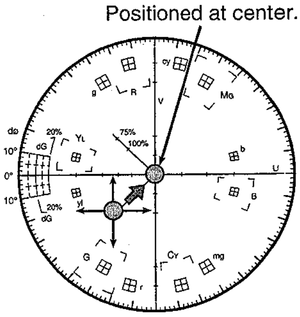

Positioned at center.

Fig. 3-9

- Set the Mode Selection Switch of the Vectorscope to the PAL mode.
- Set the Gain Control of the Vectorscope to the normal.

(18). Pedestal Level Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**

Adjust: **VR219 (PED)** **Input Board**

- Select the CH1-Component Input by the Device setting, and supply the Ramp signal to the Component Input Connector of CH1.
- Connect the Terminated Oscilloscope with 75Ω to the Video Out Y/C Connector.
- Adjust VR219 so that the Pedestal signal level becomes 0^{+7}_{-0} mV as shown in Fig. 3-10.

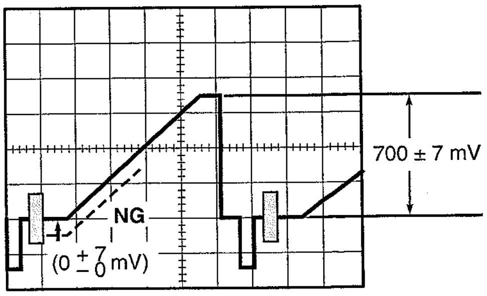


Fig. 3-10

(19). Component Y Gain Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR218 (COMP Y GAIN)** **Input Board**

- Connect the Waveform Monitor to the Video Out Y/C Connector.
- Adjust VR218 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-11.

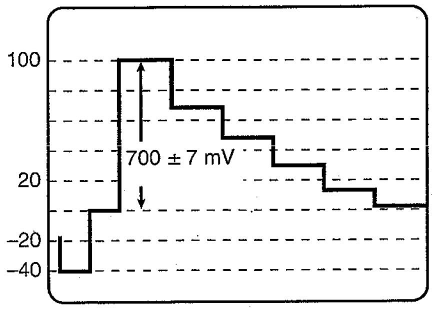


Fig. 3-11

- Confirm that the Pedestal level stays same level.
- If not, return to the Adjustment steps **(18). Pedestal Level Adjustment** and readjust **(18). Pedestal Level Adjustment** and **(19). Component Y Gain Adjustment** until satisfactory.

(20). Component C Gain Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR216 (COMP C GAIN-1)** **Input Board**
VR217 (COMP C GAIN-2) **Input Board**

- Select the β Component Input by the Device setting, and supply the PB = 0.7V Component Colour Bar signal to the Component Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Adjust VR216 and VR217 so that the Chrominance Gain and Phase are adjusted to proper position (± 3°, 3%) as shown in Fig. 3-12.

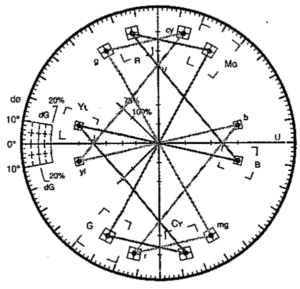


Fig. 3-12

(21). Horizontal Phase Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR220 (H-PHASE)** **Input Board**

- Select the CH1-Y/C Input by the Device setting, and supply the Cross-hatch signal to the Y/C Video Input Connector of CH1.
- Connect the Oscilloscope to the Video Output terminal of the Signal Generator, then measure the Horizontal Phase "t" as shown in the Fig. 3-13.
- Change the connection of the Oscilloscope to the Y terminal of the Video Out Y/C Connector.
- Adjust VR220 so that the Horizontal Phase becomes t ± 70 ns as shown in Fig. 3-13.

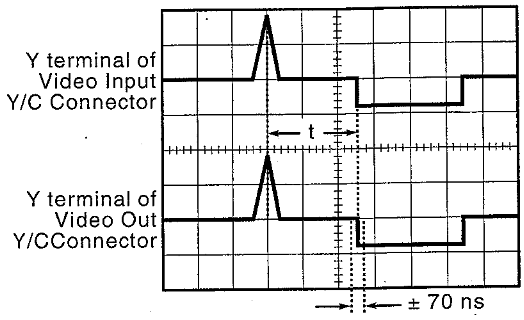


Fig. 3-13

(22). Burst Gate Pulse Width 1 Adjustment

Test Point: **TP211 (BGP-1)** **Input Board**
Adjust: **VR202 (BGP-1)** **Input Board**

- Select the CH1-Composite Input by the Device setting, and supply the Colour Bar signal to the Composite Video Input Connector of CH1.
- Connect the Oscilloscope to TP221.
- Adjust VR202 so that the Burst Gate Pulse Width becomes 8.4 µs as shown in Fig. 3-14.

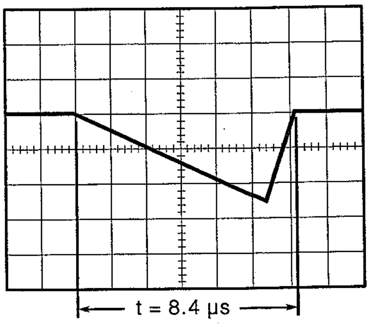


Fig. 3-14

(23). Burst Gate Pulse Width 2 Adjustment

Test Point: **TP205 (BGP-2)** **Input Board**
Adjust: **VR207 (BGP-2)** **Input Board**

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Oscilloscope to TP205.
- Adjust VR207 so that the Burst Gate Pulse Width becomes 8.4 µS as shown in Fig. 3-15.

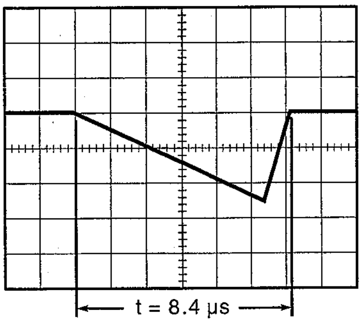


Fig. 3-15

(24). Y/C Carrier Balance Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR211 (Y/C CAR BAL-1)** **Input Board**
VR225 (Y/C CAR BAL-2) **Input Board**

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Vectorscope to the Video Out Y/C Connector.
- Set the Gain Control of the Vectorscope to the maximum.
- Adjust VR211 and VR225 so that the vector positions at the center of the Vectorscope as shown in Fig. 3-16.

Positioned at center.

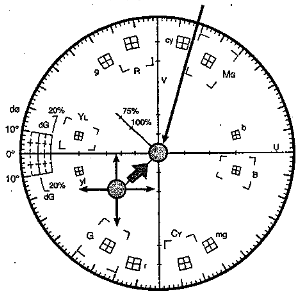


Fig. 3-16

- Set the Gain Control of the Vectorscope to the normal.

(25). Y/C Y Gain Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR221 (Y/C Y GAIN)** **Input Board**

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Waveform Monitor to the Video Out Y/C Connector.
- Adjust VR221 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-18.

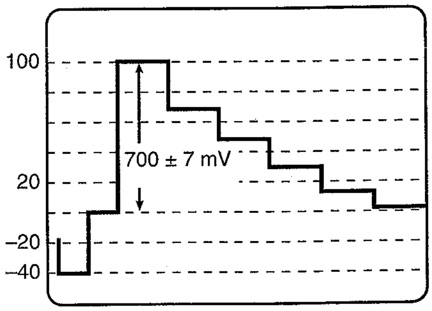


Fig. 3-18

(26). Y/C Chrominance Adjustment

Test Point: **Video Out Y/C Connector** **Rear Panel**
Adjust: **VR208 (Y/C R-Y GAIN)** **Input Board**
VR210 (Y/C B-Y GAIN) **Input Board**
VR209 (TINT) **Input Board**

- Select the CH1-Y/C Input by the Device setting, and supply the Colour Bar signal to the Y/C Video Input Connector of CH1.
- Connect the Waveform Monitor to the Video Out Y/C Connector.
- Aim the Red vector, adjust VR208 so that the Red vector becomes proper position.
- Aim the Yellow vector, adjust VR210 so that the Yellow vector becomes proper position.
- Aim the Red vector, adjust VR209 so that the Red vector becomes proper position.
- Repeat adjustment VR208, VR210 and VR209 so that the Chrominance Gain and Phase are adjusted to proper position as shown in Fig. 3-19.

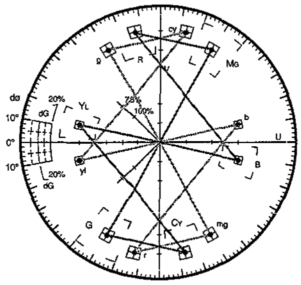


Fig. 3-19

(27). Y/C Separation Gain Adjustment

Test Point: **TP201 (Y/C SEPA GAIN)** **Input Board**

Adjust: **VR201 (Y/C SEPA GAIN)** **Input Board**

- Select the CH1-Composite Input by the Device setting, and supply the Ramp (Chroma 40 IRE (286 mV)) signal to the Composite Input Connector of CH1.
- Connect the Oscilloscope to TP201.
- Adjust VR201 so that the Y/C Separation signal becomes maximum without clipping at the Top point as shown in Fig. 3-20.

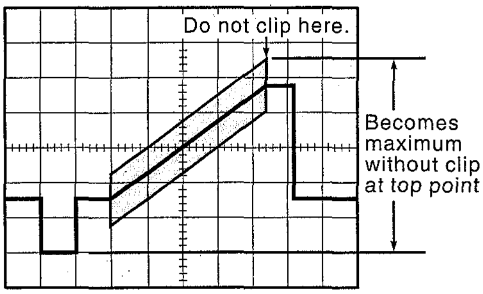


Fig. 3-20

(28). Composite Y Gain Adjustment

Test Point: **Video Out Composite Connector** **Rear Panel**

Adjust: **VR205 (COMP Y-GAIN)** **Input Board**

- Select the CH1-Composite Input by the Device setting, and supply the Colour Bar signal to the Composite Input Connector of CH1.
- Connect the Waveform Monitor to the Video Out Y/C Connector.
- Adjust VR205 so that the Y signal level becomes 700 ± 7 mV as shown in Fig. 3-21.

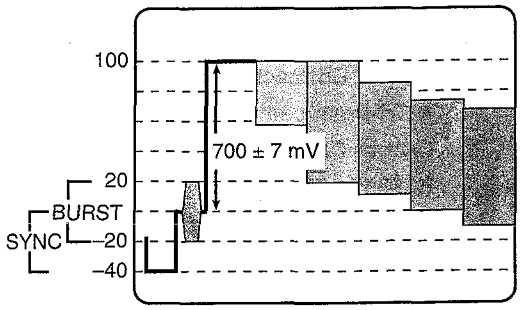


Fig. 3-21

■ Audio Board

(29). Balance Output Level Adjustment

Test Point: **1-CH Unbalanced Audio Output Connector-L** **Rear Panel**

1-CH Unbalanced Audio Output Connector-R **Rear Panel**

Adjust: **R527 (BAL-L)** **Audio Board**

R525 (BAL-R) **Audio Board**

- Supply 1 KHz Tone Clip to the Sequence Editor and play-back.
- Connect the AC Voltmeter (with dB Measure) to the 1-CH Balanced Audio Output Connector-L.
- Adjust R527 so that the 1-CH Balanced Output level becomes – 9.00 ± 0.10 dBm.
- Change the connection of the AC Voltmeter (with dB Measure) to the 1-CH Balanced Audio Output Connector-R.
- Adjust R525 so that the 1-CH Balanced Output level becomes – 9.00 ± 0.10 dBm.

(30). Unbalance Output Level Adjustment

Test Point: **3-CH Unbalanced Audio Output Connector-L** **Rear Panel**

3-CH Unbalanced Audio Output Connector-R **Rear Panel**

Adjust: **R245 (UNBAL-L)** **Audio Board**

R247 (UNBAL-R) **Audio Board**

- Supply 1 KHz Tone Clip to the Sequence Editor and play-back.
- Connect the AC Voltmeter (with dB Measure) to the 3-CH Unbalanced Audio Output Connector-L.
- Adjust R245 so that the 3-CH Unbalanced Output level becomes – 19.00 ± 0.10 dBm.
- Change the connection of the AC Voltmeter (with dB Measure) to the 3-CH Unbalanced Audio Output Connector-R.
- Adjust R247 so that the 3-CH Unbalanced Output level becomes – 19.00 ± 0.10 dBm.

(31). Input Level Adjustment

Test Point:	**1-CH Balanced Audio Output Connector-L**	**Rear Panel**
	1-CH Balanced Audio Output Connector-R	**Rear Panel**
Adjust:	**R263 (INPUT-L)**	**Audio Board**
	R266 (INPUT-R)	**Audio Board**

- Supply 1 KHz (+ 4.00 ± 0.10 dBm) signal from the Audio Analyzer to the 1-CH Balanced Input Connector-L.
- Executes the Manual Digitizer and select 1-CH Balanced Input Connector-L by the Device setting.
- Connect the AC Voltmeter (with dB Measure) to the 1-CH Balanced Audio Output Connector-L.
- Adjust R263 so that the 1-CH Balanced Output level-L becomes + 4.00 ± 0.10 dBm.
- Supply 1 KHz (+ 4.00 ± 0.10 dBm) signal from the Audio Analyzer to the 1-CH Balanced Input Connector-R.
- Executes the Manual Digitizer and select 1-CH Balanced Input Connector-R by the Device setting.
- Change the connection of the AC Voltmeter (with dB Measure) to the 1-CH Balanced Audio Output Connector-R.
- Adjust R266 so that the 1-CH Balanced Output level-R becomes + 4.00 ± 0.10 dBm.

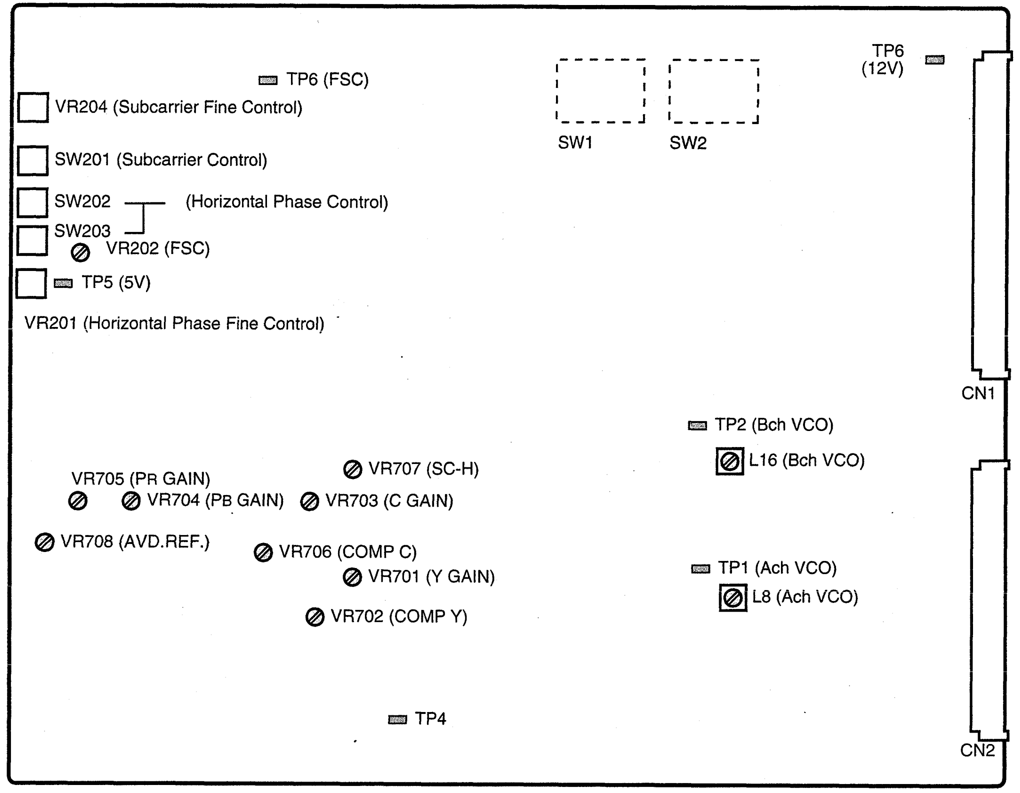
(32). Level Meter Adjustment

Test Point:	**Level Meter-L**	**Audio Board**
	Level Meter-R	**Audio Board**
Adjust:	**R672 (METER-L)**	**Audio Board**
	R671 (METER-R)	**Audio Board**

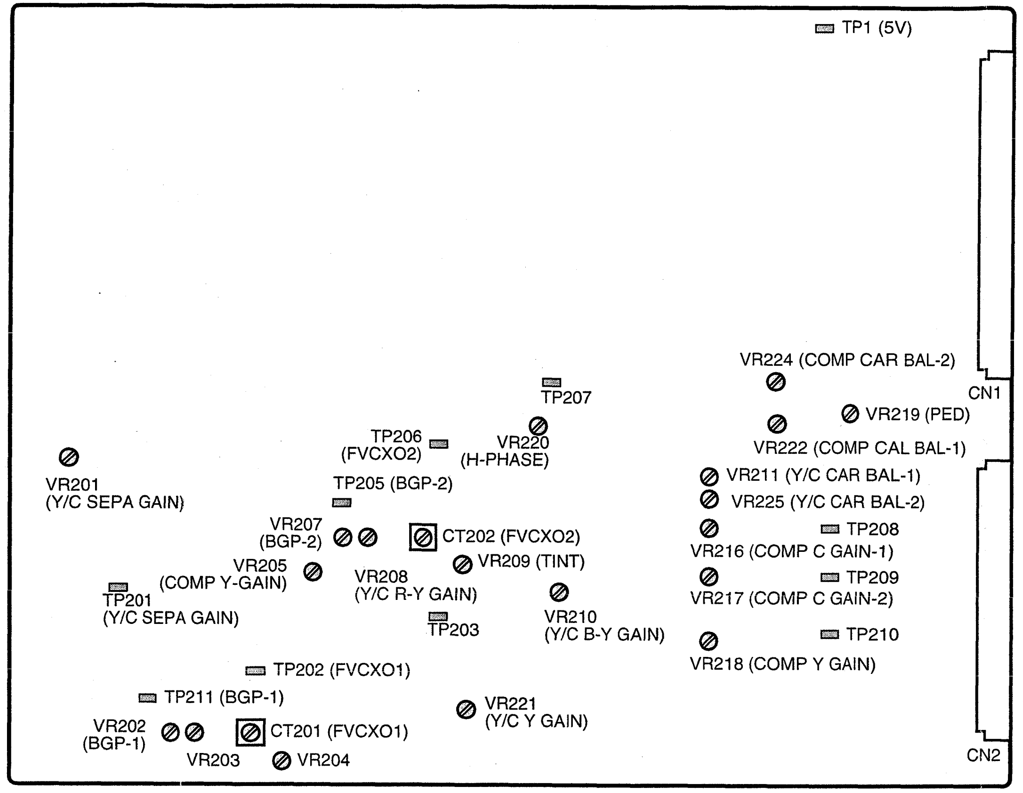
- Executes the Manual Digitizer, supply + 4 dBm signal to both 1-CH Balanced Input Connector-L and Input Connector-R.
- Executes the Level Meter Panel.
- Adjust R672 so that the 0 dB Indication LED-L (seventh from the Top) becomes lit and just eliminates the limit of the sixth LED-L from the Top.
- Adjust R671 so that the 0 dB Indication LED-R (seventh from the Top) becomes lit and just eliminates the limit of the sixth LED-R from the Top.

LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

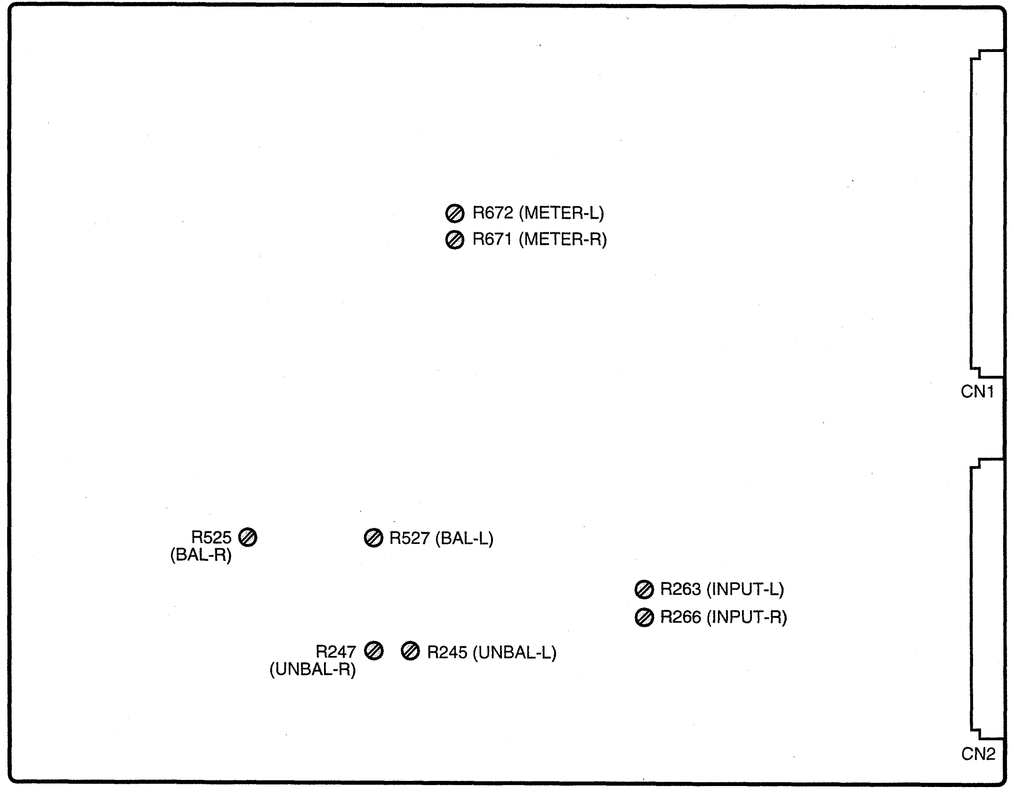
MIXER BOARD (COMPONENT SIDE)


TP6 (FSC)
VR204 (Subcarrier Fine Control)
SW201 (Subcarrier Control)
SW202
SW203
(Horizontal Phase Control)
VR202 (FSC)
TP5 (5V)
VR201 (Horizontal Phase Fine Control)
SW1
SW2
TP6
(12V)
CN1
TP2 (Bch VCO)
L16 (Bch VCO)
VR705 (PR GAIN)
VR707 (SC-H)
VR704 (PB GAIN)
VR703 (C GAIN)
VR708 (AVD.REF.)
VR706 (COMP C)
VR701 (Y GAIN)
VR702 (COMP Y)
TP1 (Ach VCO)
L8 (Ach VCO)
TP4
CN2

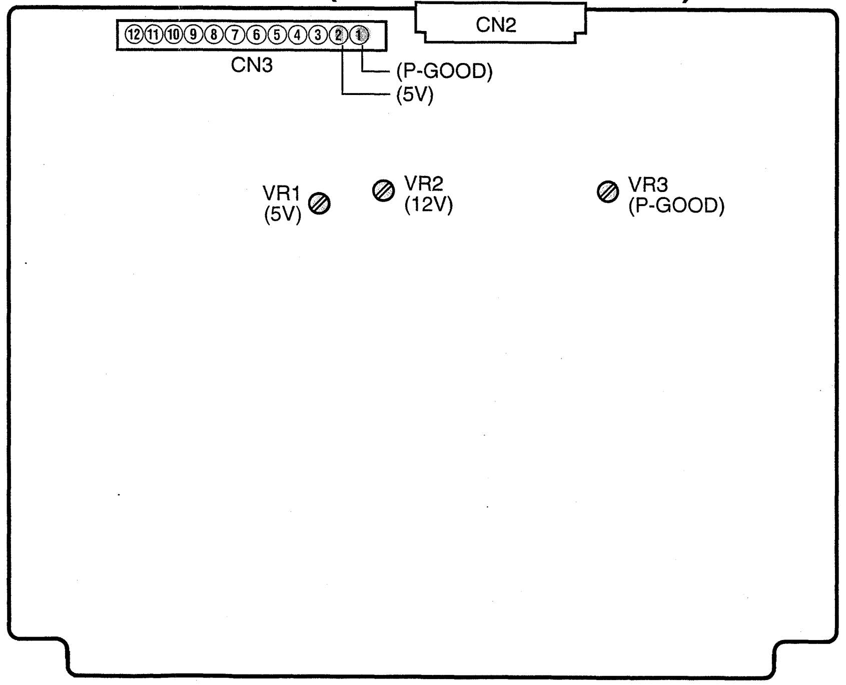
INPUT BOARD (COMPONENT SIDE)


TP1 (5V)
VR224 (COMP CAR BAL-2)
CN1
TP207
VR219 (PED)
TP206
(FVCXO2)
VR220
(H-PHASE)
VR222 (COMP CAL BAL-1)
VR201
(Y/C SEPA GAIN)
TP205 (BGP-2)
VR211 (Y/C CAR BAL-1)
VR225 (Y/C CAR BAL-2)
VR207
(BGP-2)
CT202 (FVCXO2)
TP208
VR216 (COMP C GAIN-1)
VR205
(COMP Y-GAIN)
VR209 (TINT)
VR208
(Y/C R-Y GAIN)
TP209
VR217 (COMP C GAIN-2)
TP201
(Y/C SEPA GAIN)
TP203
VR210
(Y/C B-Y GAIN)
TP210
VR218 (COMP Y GAIN)
TP202 (FVCXO1)
TP211 (BGP-1)
VR221
(Y/C Y GAIN)
VR202
(BGP-1)
CT201 (FVCXO1)
VR203
VR204
CN2

AUDIO BOARD (COMPONENT SIDE)

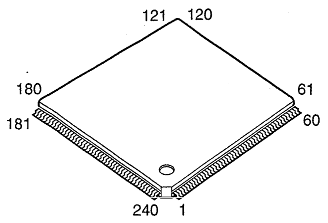

R672 (METER-L)
R671 (METER-R)
CN1
R525
(BAL-R)
R527 (BAL-L)
R263 (INPUT-L)
R266 (INPUT-R)
R247
(UNBAL-R)
R245 (UNBAL-L)
CN2

POWER BOARD (COMPONENT SIDE)


⑫⑪⑩⑨⑧⑦⑥⑤④③②①
CN3
CN2
(P-GOOD)
(5V)
VR1
(5V)
VR2
(12V)
VR3
(P-GOOD)

APPEARANCE OF IC, TRANSISTOR AND DIODE

UPD65806080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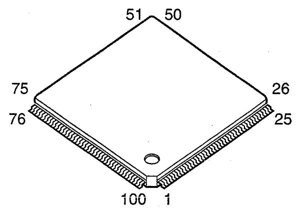
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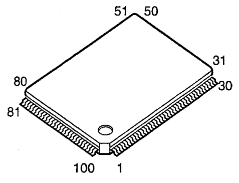
YWMD36050X27
TMS57070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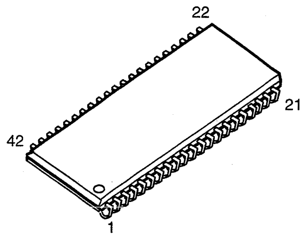

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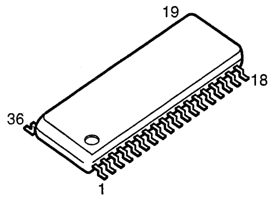

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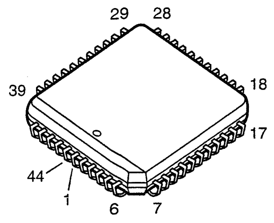
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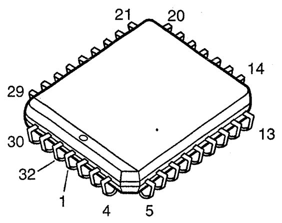
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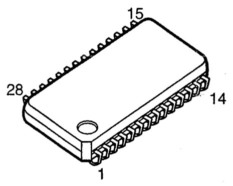

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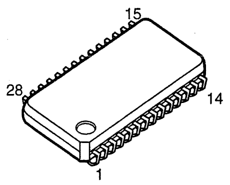
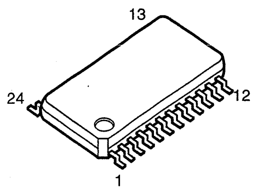
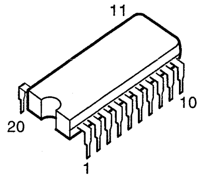


UPD42102G3



YW18V1015001
YW18V1015002
YW16V8A04A



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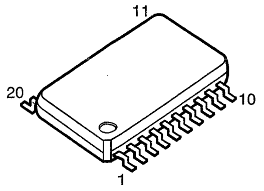
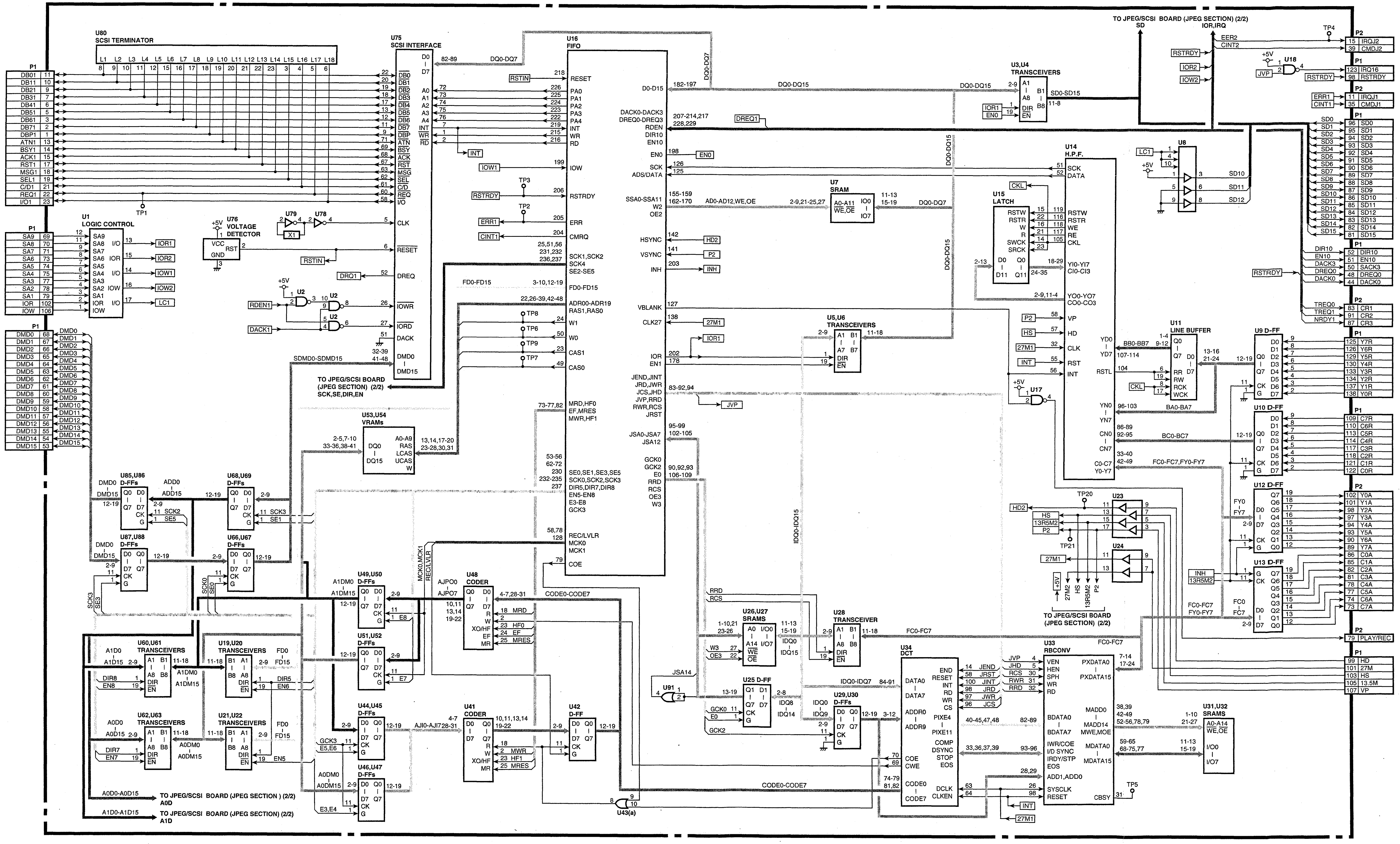


BLOCK DIAGRAM OF JPEG/SCSI BOARD (JPEG SECTION) (1/2)

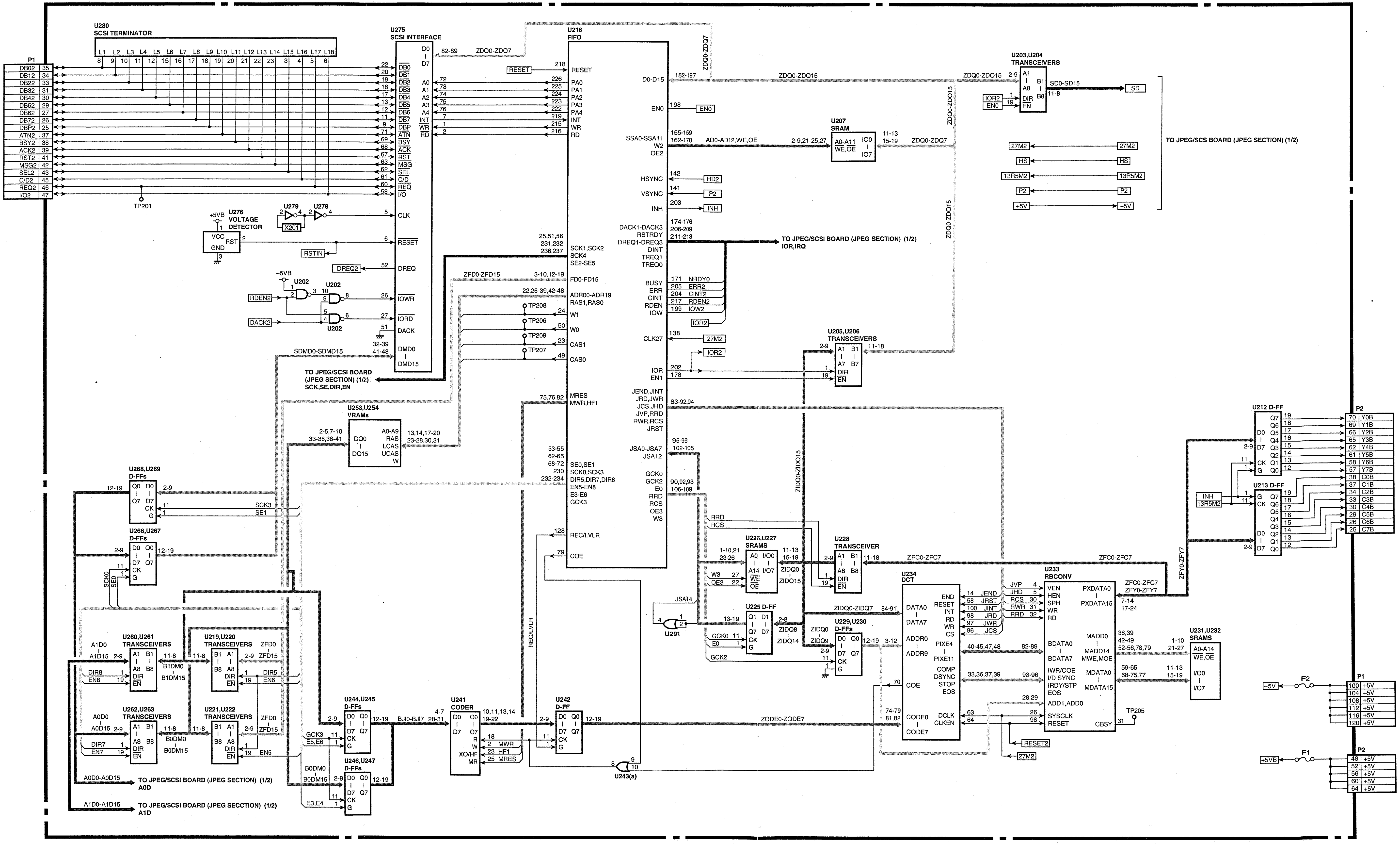
JPEG/SCSI BOARD (JPEG SECTION) (1/2)



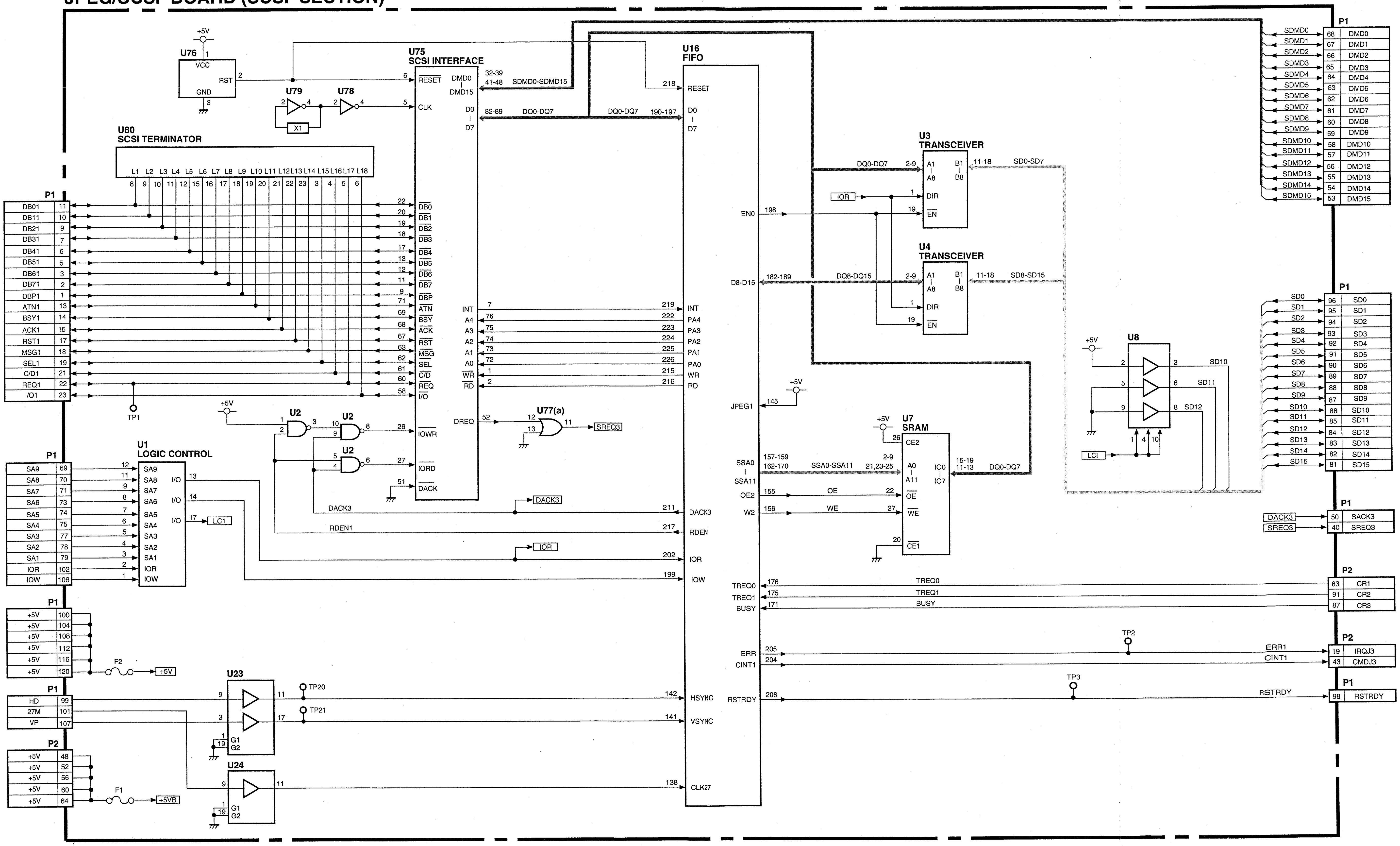
U80 SCSI TERMINATOR
U75 SCSI INTERFACE
U16 FIFO
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) SD IOR,IRQ
TP4
U18
U3,U4 TRANSCEIVERS
P1
P2
U1 LOGIC CONTROL
U76 VOLTAGE DETECTOR
U79
U78
U2
TP1
TP2
TP3
TP6
TP7
TP8
TP9
U7 SRAM
U14 H.P.F.
U15 LATCH
U8
U5,U6 TRANSCEIVERS
U11 LINE BUFFER
U9 D-FF
U10 D-FF
U12 D-FF
U13 D-FF
U17
U23
U24
TP20
TP21
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2)
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) SCK,SE,DIR,EN
U53,U54 VRAMs
U85,U86 D-FFs
U68,U69 D-FFs
U87,U88 D-FFs
U66,U67 D-FFs
U49,U50 D-FFs
U48 CODER
U51,U52 D-FFs
U60,U61 TRANSCEIVERS
U19,U20 TRANSCEIVERS
U62,U63 TRANSCEIVERS
U21,U22 TRANSCEIVERS
U44,U45 D-FFs
U46,U47 D-FFs
U41 CODER
U42 D-FF
U43(a)
U91
U26,U27 SRAMS
U25 D-FF
U28 TRANSCEIVER
U29,U30 D-FFs
U34 DCT
U33 RBCONV
U31,U32 SRAMS
TP5
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) A0D
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) A1D
A0D0-A0D15
A1D0-A1D15
CODE0-CODE7
DQ0-DQ15
DQ0-DQ7
IDQ0-IDQ15
FC0-FC7
SD0-SD15

BLOCK DIAGRAM OF JPEG/SCSI BOARD (JPEG SECTION) (2/2)

JPEG/SCSI BOARD (JPEG SECTION) (2/2)

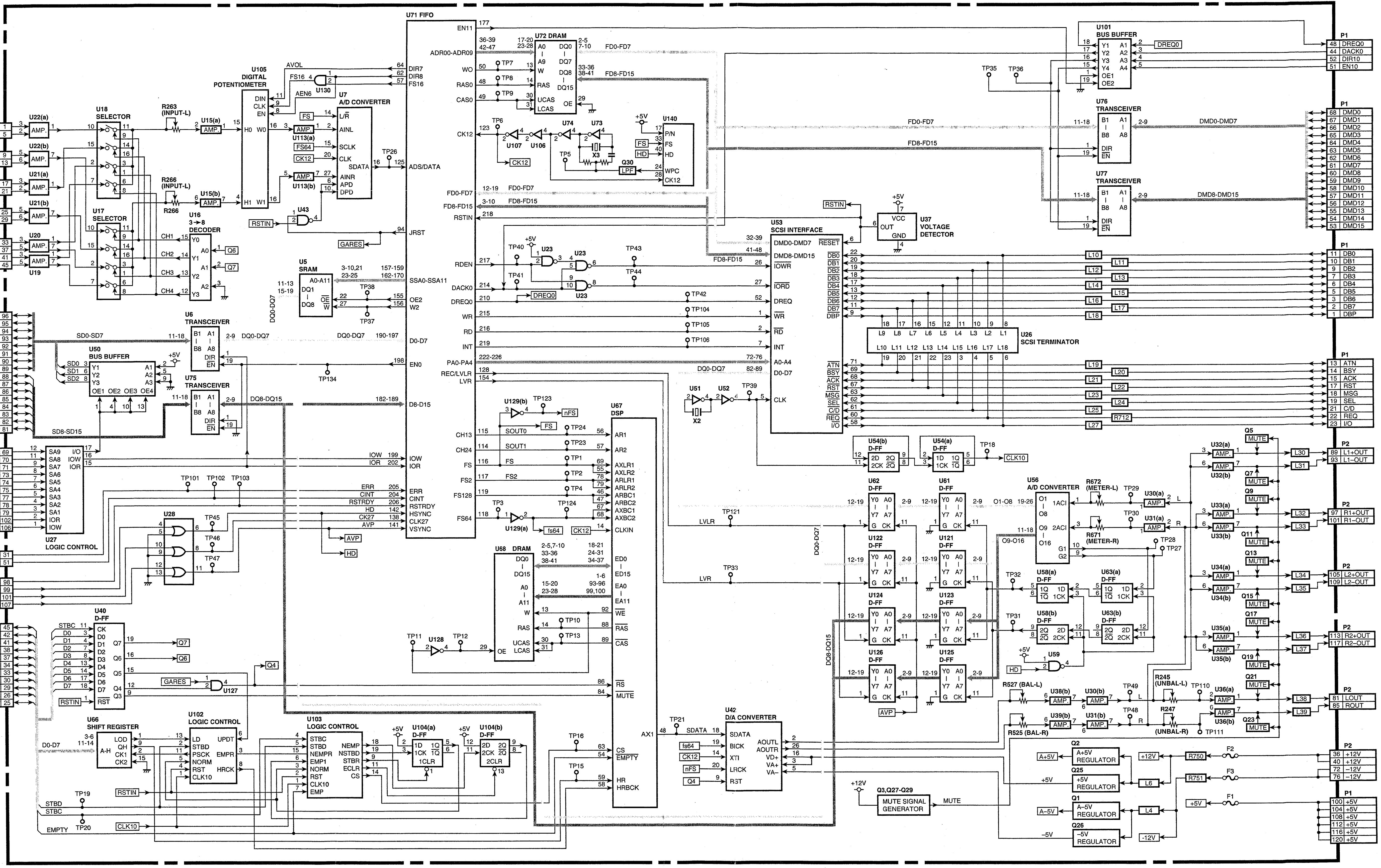

U280
SCSI TERMINATOR
P1
DB02 DB12 DB22 DB32 DB42 DB52 DB62 DB72 DBP2 ATN2 BSY2 ACK2 RST2 MSG2 SEL2 C/D2 REQ2 I/O2
TP201
U275
SCSI INTERFACE
U276
VOLTAGE DETECTOR
+5VB
VCC RST GND
U279
U278
X201
RSTIN
DREQ2
U202
RDEN2
DACK2
CLK
RESET
DREQ
IOWR
IORD
DACK
DMD0 I DMD15
SDMD0-SDMD15
TO JPEG/SCSI BOARD (JPEG SECTION) (1/2) SCK,SE,DIR,EN
U216
FIFO
ZDQ0-ZDQ7
RESET
PA0 PA1 PA2 PA3 PA4 INT WR RD
SCK1,SCK2 SCK4 SE2-SE5
ZFD0-ZFD15
FD0-FD15
ADR00-ADR19 RAS1,RAS0
TP208 TP206 TP209 TP207
W1 W0 CAS1 CAS0
MRES MWR,HF1
U253,U254
VRAMs
DQ0 I DQ15
A0-A9 RAS LCAS UCAS W
SE0,SE1 SCK0,SCK3 DIR5,DIR7,DIR8 EN5-EN8 E3-E6 GCK3
REC/LVLR
COE
D0-D15
ZDQ0-ZDQ15
EN0
SSA0-SSA11 W2 OE2
U207
SRAM
A0-A11 WE,OE IO0 I IO7
AD0-AD12,WE,OE
HSYNC VSYNC INH
HD2 P2 INH
DACK1-DACK3 RSTRDY DREQ1-DREQ3 DINT TREQ1 TREQ0
TO JPEG/SCSI BOARD (JPEG SECTION) (1/2) IOR,IRQ
BUSY ERR CINT RDEN IOW
NRDY0 ERR2 CINT2 RDEN2 IOW2
IOR2
CLK27
27M2
IOR EN1
JEND,JINT JRD,JWR JCS,JHD JVP,RRD RWR,RCS JRST
JSA0-JSA7 JSA12
GCK0 GCK2 E0 RRD RCS OE3 W3
U203,U204
TRANSCEIVERS
SD0-SD15
SD
IOR2 EN0
27M2 HS 13R5M2 P2 +5V
TO JPEG/SCS BOARD (JPEG SECTION) (1/2)
U205,U206
TRANSCEIVERS
ZIDQ0-ZIDQ15
U226,U227
SRAMS
U225 D-FF
U291
JSA14
U228
TRANSCEIVER
ZFC0-ZFC7
U229,U230
D-FFs
U234
DCT
END RESET INT RD WR CS
DATA0 I DATA7
ADDR0 I ADDR9
PIXE4 I PIXE11
COMP DSYNC STOP EOS
COE
CODE0 I CODE7
DCLK CLKEN
U233
RBCONV
VEN HEN SPH WR RD
PXDATA0 I PXDATA15
ZFC0-ZFC7 ZFY0-ZFY7
BDATA0 I BDATA7
MADD0 I MADD14 MWE,MOE
IWR/COE I/D SYNC IRDY/STP EOS
MDATA0 I MDATA15
ADD1,ADD0
SYSCLK RESET CBSY
TP205
RESET2
27M2
U231,U232
SRAMS
A0-A14 WE,OE
I/O0 I I/O7
U212 D-FF
U213 D-FF
INH 13R5M2
P2
Y0B Y1B Y2B Y3B Y4B Y5B Y6B Y7B C0B C1B C2B C3B C4B C5B C6B C7B
F2 F1
+5V +5VB
P1
P2
U268,U269
D-FFs
U266,U267
D-FFs
SCK3 SE1
SCK0 SE0
U260,U261
TRANSCEIVERS
A1D0 I A1D15
DIR8 EN8
B1DM0 I B1DM15
U219,U220
TRANSCEIVERS
ZFD0 I ZFD15
DIR5 EN6
U262,U263
TRANSCEIVERS
A0D0 I A0D15
DIR7 EN7
B0DM0 I B0DM15
U221,U222
TRANSCEIVERS
EN5
A0D0-A0D15
TO JPEG/SCSI BOARD (JPEG SECTION) (1/2) A0D
A1D0-A1D15
TO JPEG/SCSI BOARD (JPEG SECCTION) (1/2) A1D
U244,U245
D-FFs
GCK3 E5,E6
U246,U247
D-FFs
B0DM0 I B0DM15
E3,E4
BJI0-BJI7
U241
CODER
D0 D7 Q0 Q7 R W XO/HF MR
MWR HF1 MRES
U242
D-FF
ZODE0-ZODE7
U243(a)

BLOCK DIAGRAM OF JPEG/SCSI BOARD (SCSI SECTION)


JPEG/SCSI BOARD (SCSI SECTION)
U76
VCC
RST
GND
+5V
U75
SCSI INTERFACE
RESET
CLK
DMD0 - DMD15
D0 - D7
32-39 41-48
SDMD0-SDMD15
82-89
DQ0-DQ7
U79
U78
X1
U80
SCSI TERMINATOR
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18
U16
FIFO
RESET
D0 - D7
190-197
218
P1
DB01
DB11
DB21
DB31
DB41
DB51
DB61
DB71
DBP1
ATN1
BSY1
ACK1
RST1
MSG1
SEL1
C/D1
REQ1
I/O1
TP1
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DBP
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
INT
A4
A3
A2
A1
A0
WR
RD
PA4
PA3
PA2
PA1
PA0
DREQ
U77(a)
SREQ3
U2
IOWR
IORD
DACK
DACK3
RDEN1
IOR
U1
LOGIC CONTROL
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IOR
IOW
I/O
LC1
+5V
F2
F1
+5VB
U23
U24
G1
G2
TP20
TP21
HD
27M
VP
P2
HSYNC
VSYNC
CLK27
EN0
D8-D15
182-189
DQ8-DQ15
JPEG1
SSA0 - SSA11
157-159 162-170
SSA0-SSA11
OE2
W2
OE
WE
RDEN
IOW
TREQ0
TREQ1
BUSY
ERR
CINT1
RSTRDY
U3
TRANSCEIVER
U4
TRANSCEIVER
A1 - A8
B1 - B8
DIR
EN
DQ0-DQ7
SD0-SD7
SD8-SD15
U7
SRAM
CE2
A0 - A11
IO0 - IO7
CE1
U8
SD10
SD11
SD12
LCI
SDMD0
SDMD1
SDMD2
SDMD3
SDMD4
SDMD5
SDMD6
SDMD7
SDMD8
SDMD9
SDMD10
SDMD11
SDMD12
SDMD13
SDMD14
SDMD15
DMD0
DMD1
DMD2
DMD3
DMD4
DMD5
DMD6
DMD7
DMD8
DMD9
DMD10
DMD11
DMD12
DMD13
DMD14
DMD15
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SACK3
SREQ3
CR1
CR2
CR3
TP2
ERR1
CINT1
IRQJ3
CMDJ3
TP3
RSTRDY

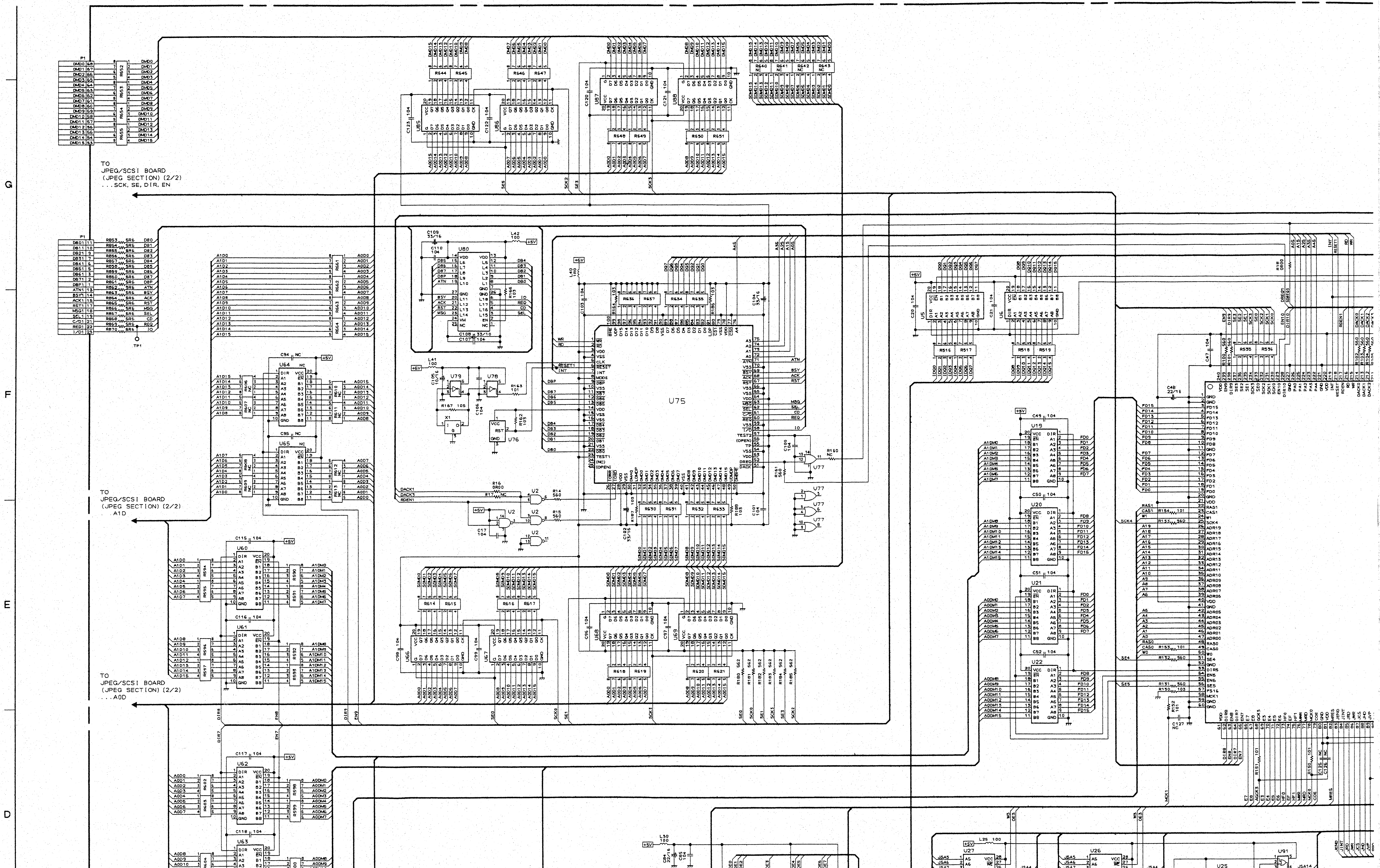
BLOCK DIAGRAM OF AUDIO BOARD

AUDIO BOARD


P2
L1+IN
L1−IN
R1+IN
R1−IN
L2+IN
L2−IN
R2+IN
R2−IN
L3IN
R3IN
L4IN
R4IN
U22(a) AMP.
U22(b) AMP.
U21(a) AMP.
U21(b) AMP.
U20 AMP.
U19 AMP.
U18 SELECTOR
U17 SELECTOR
R263 (INPUT-L)
R266 (INPUT-L)
U15(a) AMP.
U15(b) AMP.
U105 DIGITAL POTENTIOMETER
AVOL
FS16
U130
AEN6
U7 A/D CONVERTER
FS
FS64
CK12
AMP.
U113(a)
U113(b)
SDATA
TP26
ADS/DATA
U43
RSTIN
U16 3→8 DECODER
CH1
CH2
CH3
CH4
Q6
Q7
U71 FIFO
EN11
ADR00-ADR09
WO
RASO
CASO
CK12
DIR7
DIR8
JRST
GARES
U5 SRAM
A0-A11
DQ1
DQ8
OE
W2
SSA0-SSA11
TP38
TP37
DQ0-DQ7
U6 TRANSCEIVER
SD0-SD7
U50 BUS BUFFER
U75 TRANSCEIVER
DQ8-DQ15
SD8-SD15
D0-D7
EN0
D8-D15
TP134
P1
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IOR
IOW
U27 LOGIC CONTROL
IRQA
CMDA
RSTRDY
HD
28.6M
VP
TP101
TP102
TP103
ERR
CINT
RSTRDY
CK27
AVP
HSYNC
CLK27
VSYNC
U28
TP45
TP46
TP47
AVP
HD
U40 D-FF
EMPTY
STBD
STBC
D0
D1
D2
D3
D4
D5
D6
D7
Q7
Q6
Q4
GARES
U127
RSTIN
U66 SHIFT REGISTER
U102 LOGIC CONTROL
U103 LOGIC CONTROL
U104(a) D-FF
U104(b) D-FF
TP19
TP20
STBD
STBC
EMPTY
CLK10
U72 DRAM
FD0-FD7
FD8-FD15
TP7
TP8
TP9
TP6
U107
U106
U74
U73
X3
Q30
LPF
TP5
U140
P/N
WPC
RDEN
DACK0
DREQ0
WR
RD
INT
PA0-PA4
REC/LVLR
LVR
TP40
TP41
U23
TP43
TP44
TP42
TP104
TP105
TP106
U129(b)
TP123
nFS
U68 DRAM
TP10
TP13
TP11
U128
TP12
U67 DSP
CH13
CH24
SOUT0
SOUT1
FS2
FS128
FS64
TP24
TP23
TP1
TP2
TP4
TP3
TP124
U129(a)
fs64
AR1
AR2
AXLR1
AXLR2
ARLR1
ARLR2
ARBC1
ARBC2
AXBC1
AXBC2
CLKIN
ED0
ED15
EA0
EA11
WE
RAS
CAS
RS
MUTE
CS
EMPTY
HR
HRBCK
AX1
TP16
TP15
TP21
U53 SCSI INTERFACE
DMD0-DMD7
DMD8-DMD15
RESET
IOWR
IORD
DREQ
A0-A4
CLK
U51
U52
TP39
X2
U37 VOLTAGE DETECTOR
+5V
U26 SCSI TERMINATOR
U101 BUS BUFFER
TP35
TP36
U76 TRANSCEIVER
U77 TRANSCEIVER
DREQ0
DACK0
DIR10
EN10
DMD0-DMD15
DB0-DB7
DBP
ATN
BSY
ACK
RST
MSG
SEL
C/D
REQ
I/O
U54(b) D-FF
U54(a) D-FF
TP18
CLK10
U62 D-FF
U61 D-FF
U122 D-FF
U121 D-FF
U124 D-FF
U123 D-FF
U126 D-FF
U125 D-FF
LVLR
TP121
LVR
TP33
DQ0-DQ7
DQ8-DQ15
U56 A/D CONVERTER
R672 (METER-L)
R671 (METER-R)
TP29
TP30
TP28
TP27
U58(a) D-FF
U63(a) D-FF
U58(b) D-FF
U63(b) D-FF
TP32
TP31
U59
U42 D/A CONVERTER
SDATA
BICK
XTI
LRCK
RST
AOUTL
AOUTR
R527 (BAL-L)
R525 (BAL-R)
U38(b) AMP.
U39(b) AMP.
U30(b) AMP.
U31(b) AMP.
TP49
TP48
R245 (UNBAL-L)
R247 (UNBAL-R)
TP110
TP111
U30(a) AMP.
U31(a) AMP.
U32(a) AMP.
U32(b) AMP.
U33(a) AMP.
U33(b) AMP.
U34(a) AMP.
U34(b) AMP.
U35(a) AMP.
U35(b) AMP.
U36(a) AMP.
U36(b) AMP.
Q5 MUTE
Q7 MUTE
Q9 MUTE
Q11 MUTE
Q13 MUTE
Q15 MUTE
Q17 MUTE
Q19 MUTE
Q21 MUTE
Q23 MUTE
L1+OUT
L1−OUT
R1+OUT
R1−OUT
L2+OUT
L2−OUT
R2+OUT
R2−OUT
LOUT
ROUT
Q2 A+5V REGULATOR
Q25 +5V REGULATOR
Q1 A−5V REGULATOR
Q26 −5V REGULATOR
Q3,Q27-Q29 MUTE SIGNAL GENERATOR
MUTE
+12V
−12V
R750
R751
F1
F2
F3
L4
L6
+5V

SCHEMATIC DIAGRAM OF JPEG/SCSI BOARD

JPEG/SCSI BOARD (JPEG SECTION) (1/2)


G
F
E
D
P1
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) ...SCK, SE, DIR, EN
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) ...A1D
TO JPEG/SCSI BOARD (JPEG SECTION) (2/2) ...A0D
TP1
U75
U80
U79
U78
U76
X1
U2
U77
U85
U86
U87
U88
U64
U65
U60
U61
U62
U63
U66
U67
U68
U69
U5
U6
U19
U20
U21
U22
U25
U26
U27
U91
+5V
L40
L41
L42
L30
L25
R640
R641
R642
R643
R644
R645
R646
R647
R648
R649
R650
R651
R652
R653
R654
R655
R614
R615
R616
R617
R618
R619
R620
R621
R630
R631
R632
R633
R634
R635
R636
R637
R516
R517
R518
R519
R535
R536
R160
R161
R163
R167
C109
C110
C106
C107
C108
C17
C47
C48
C49
C50
C51
C52
C94
C95
C115
C116
C117
C118
C120
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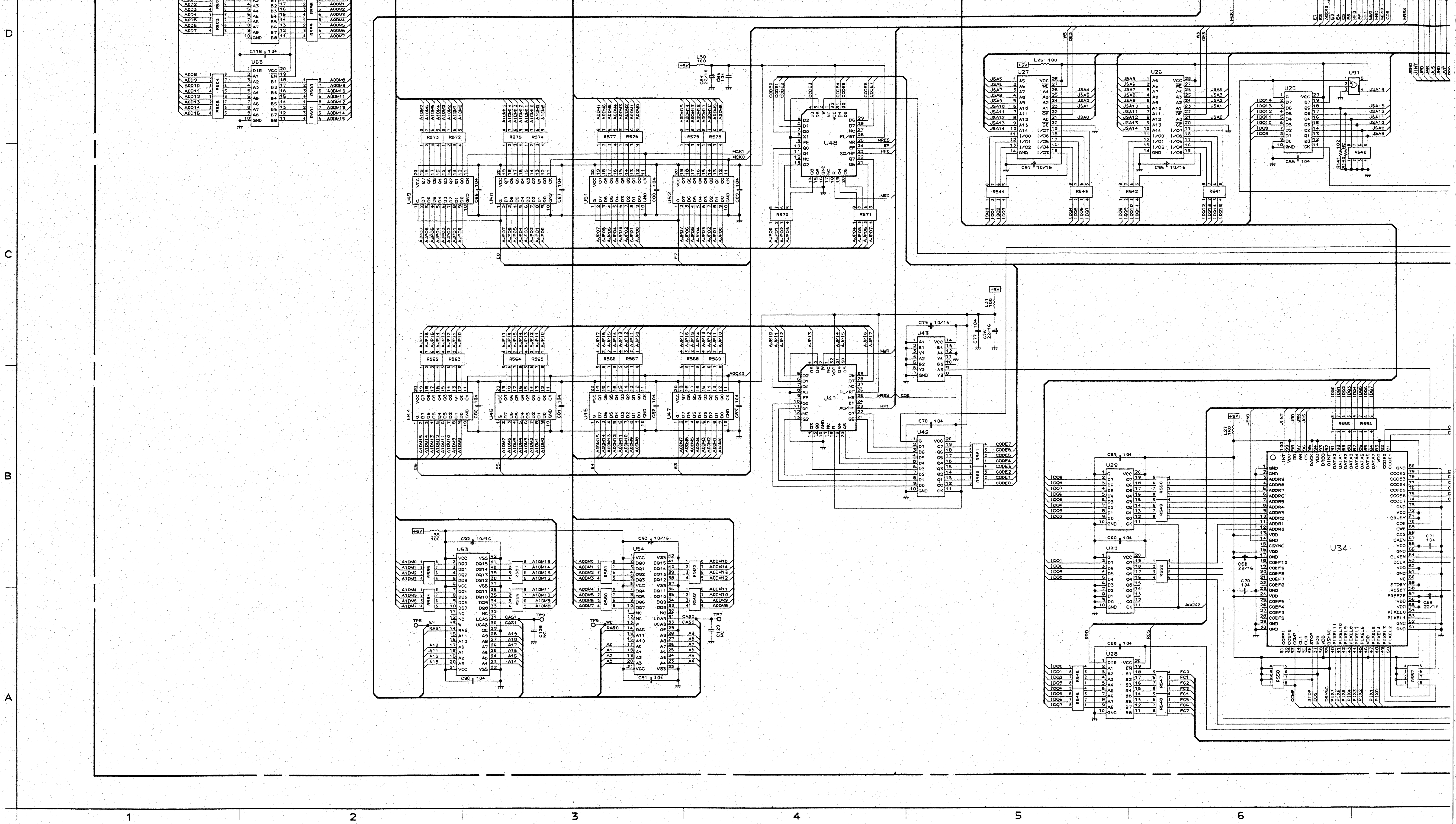
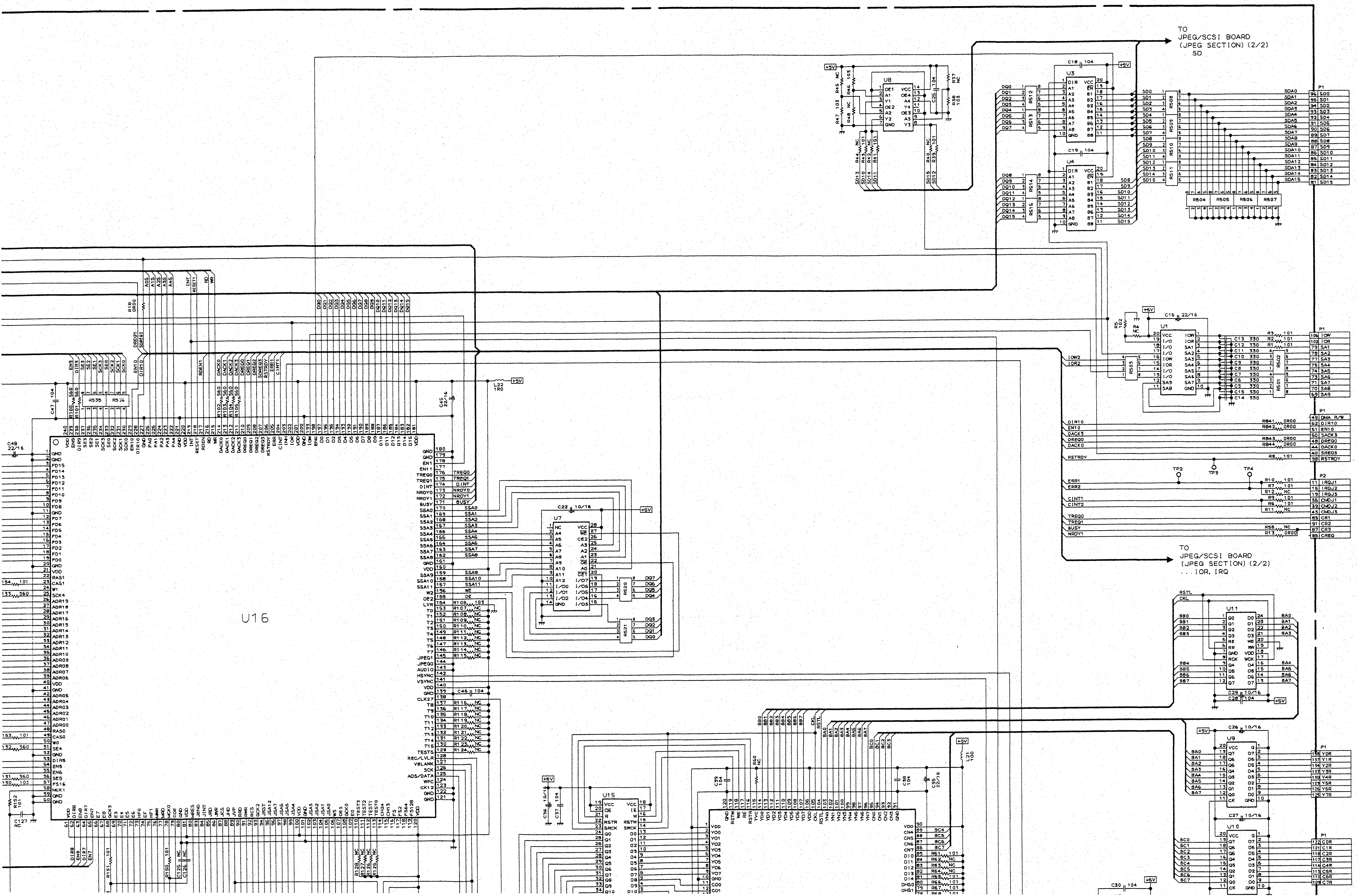
C100
C101
C102
C103
C104
C105

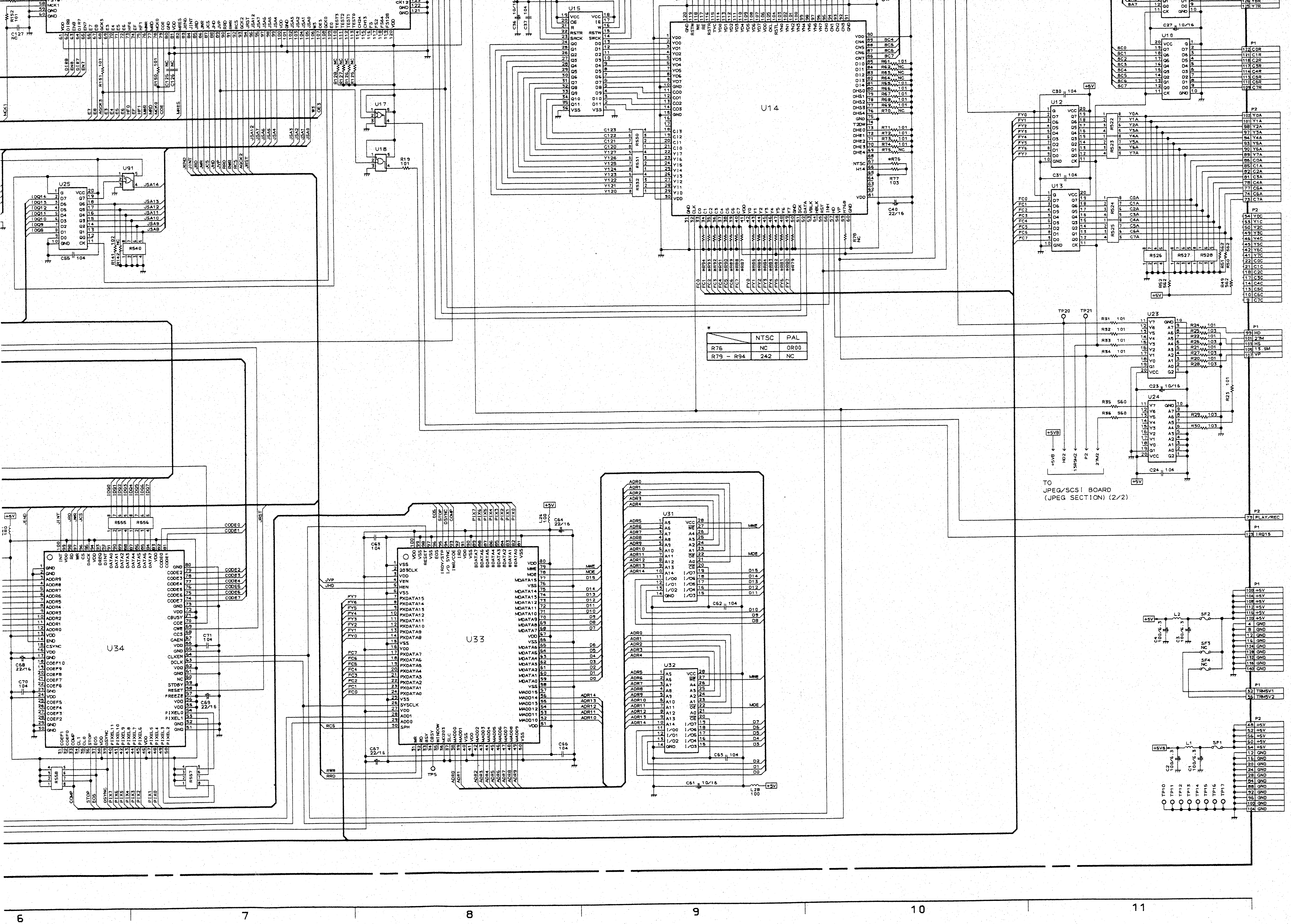

D
C
B
A
1
2
3
4
5
6
U63
U48
U49
U50
U51
U52
U27
U26
U25
U91
U43
U41
U42
U44
U45
U46
U47
U29
U30
U28
U34
U53
U54
+5V
MCK1
MCK0
MRES
AGCK3
AGCK2
TP8
TP9
TP6
TP7

JPEG/SCSI BOARD (JPEG SECTION) (1/2)


TO
JPEG/SCSI BOARD
(JPEG SECTION) (2/2)
SD
TO
JPEG/SCSI BOARD
(JPEG SECTION) (2/2)
...IOR, IRQ
U16
U1
U3
U4
U7
U8
U9
U10
U11
U15
P1
P2
+5V

<Index>
JPEG/SCSI BOARD (JPEG SECTION) (1/2)

U1	F11
U2	E3
U3	G11
U4	G11
U5	F5
U6	F5
U7	F8
U8	G10
U9	E11
U10	D11
U11	E11
U12	D11
U13	D11
U14	D9
U15	D9
U16	E7
U17	D8
U18	D8
U19	F5
U20	E5
U21	E5
U22	E5
U23	C11
U24	C11
U25	D6
U26	D6
U27	D5
U28	A5
U29	B5
U30	B5
U31	B9
U32	A9
U33	B8
U34	B6
U41	B4
U42	B5
U43	C5
U44	B2
U45	B3
U46	B3
U47	B4
U48	D4
U49	C2
U50	C3
U51	C3
U52	C4
U53	A3
U54	A3
U60	E2
U61	E2
U62	D2
U63	D2
U66	E3
U67	E3
U68	E3
U69	E4
U75	F4
U76	F3
U77	E4/F4
U78	F3
U79	F3
U80	G3


U14
U15
U17
U18
U10
U12
U13
U23
U24
U25
U31
U32
U33
U34
U91
TO
JPEG/SCSI BOARD
(JPEG SECTION) (2/2)
6
7
8
9
10
11

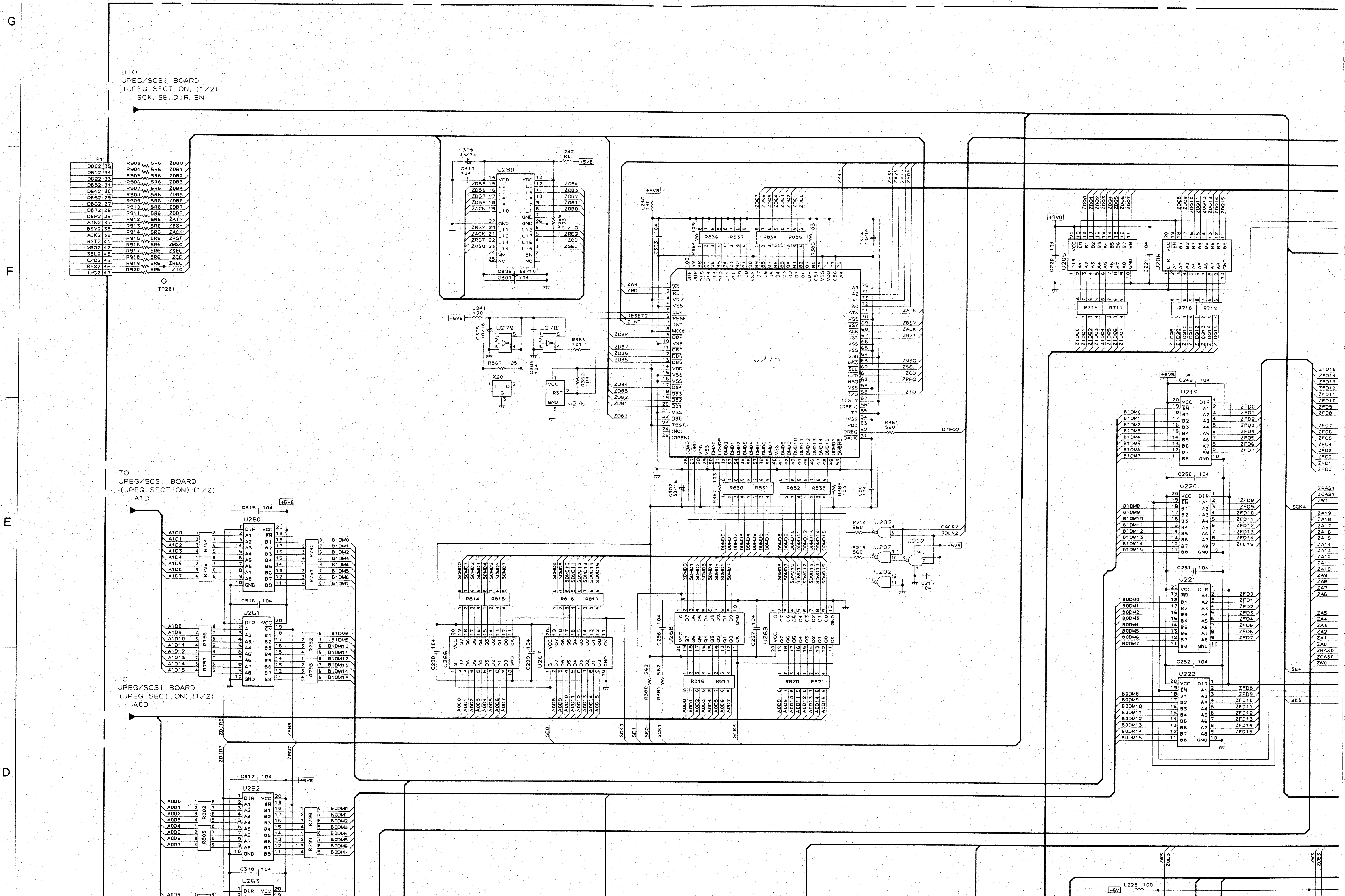
*

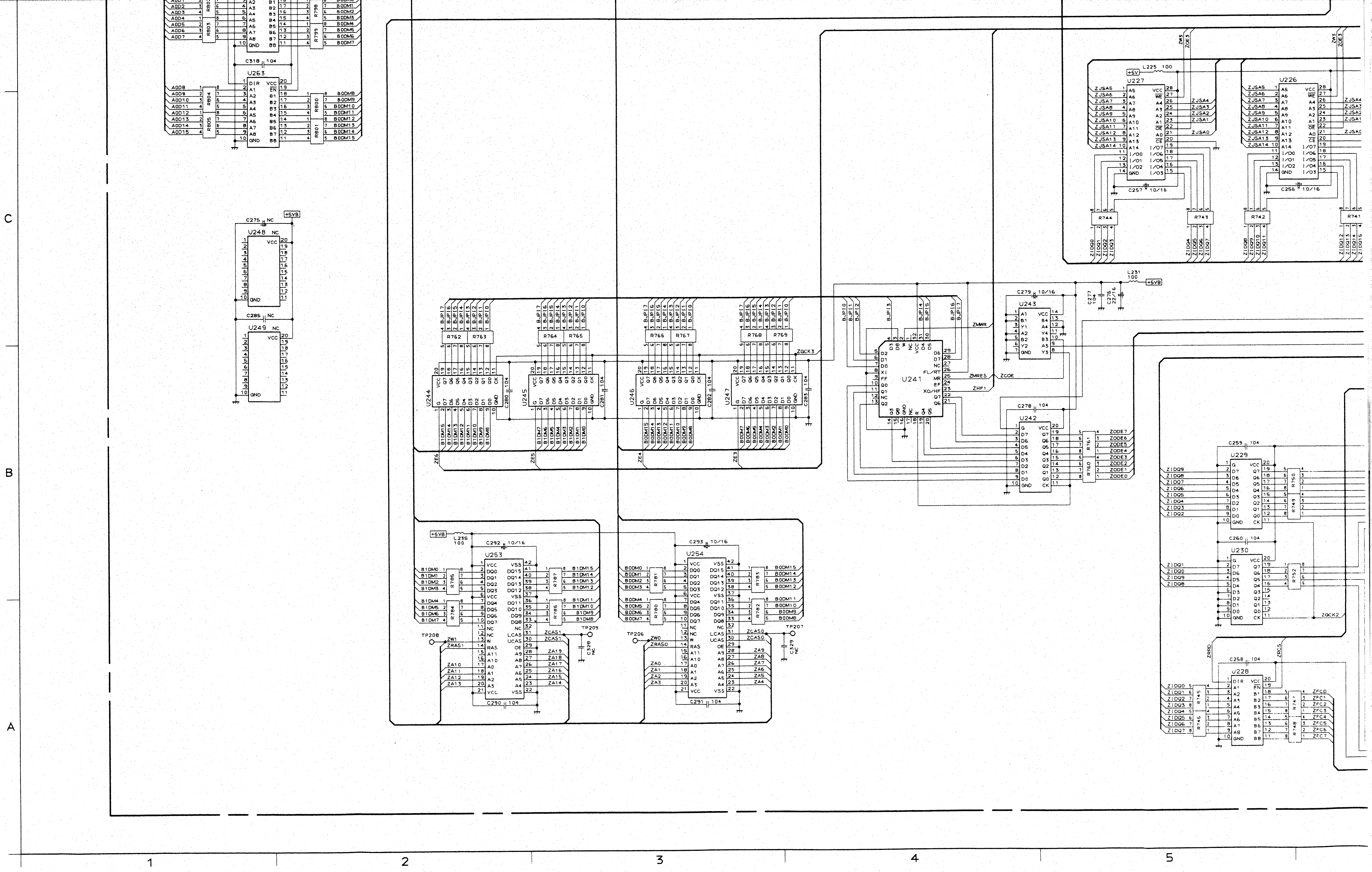
	NTSC	PAL
R76	NC	0R00
R79 – R94	242	NC

U68	E3
U69	E4
U75	F4
U76	F3
U77	E4/F4
U78	F3
U79	F3
U80	G3
U85	G3
U86	G3
U87	G3
U88	G4
U91	D7

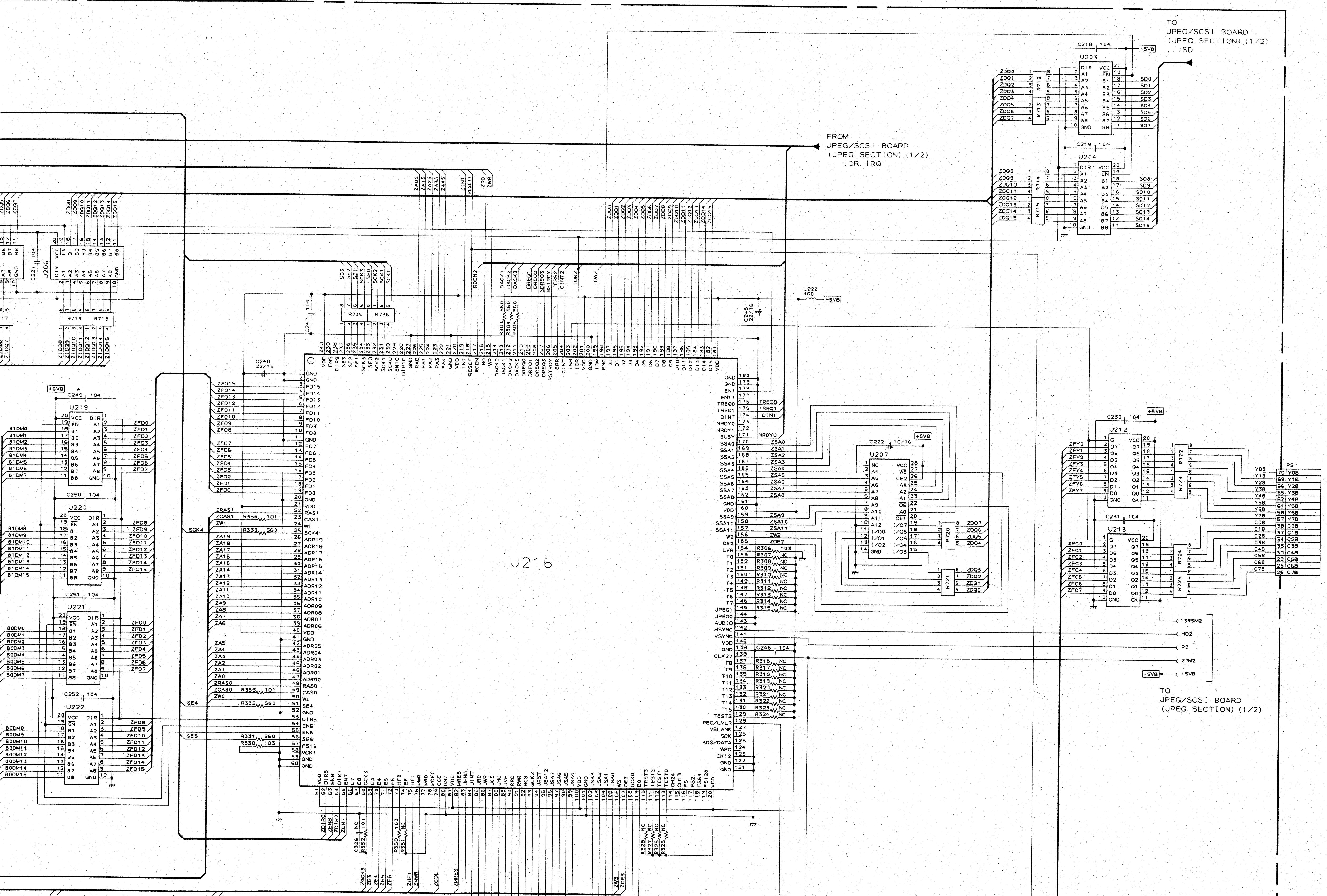
SCHEMATIC DIAGRAM OF JPEG/SCSI B

JPEG/SCSI BOARD (JPEG SECTION) (2/2)


G
F
E
D
DTO
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
.. SCK, SE, DIR, EN
P1
TP201
TO
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
...A1D
TO
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
...A0D
U280
U279
U278
U276
X201
U275
U205
U206
U219
U220
U221
U222
U260
U261
U262
U263
U266
U267
U268
U269
U202
+5VB
+5V
DREQ2
DACK2
RDEN2
SCK4
SE4
SE5
SE0
SE1
SE2
SCK0
SCK1
SCK3
ZDIR8
ZDIR7
ZEN8
ZEN7
L225 100

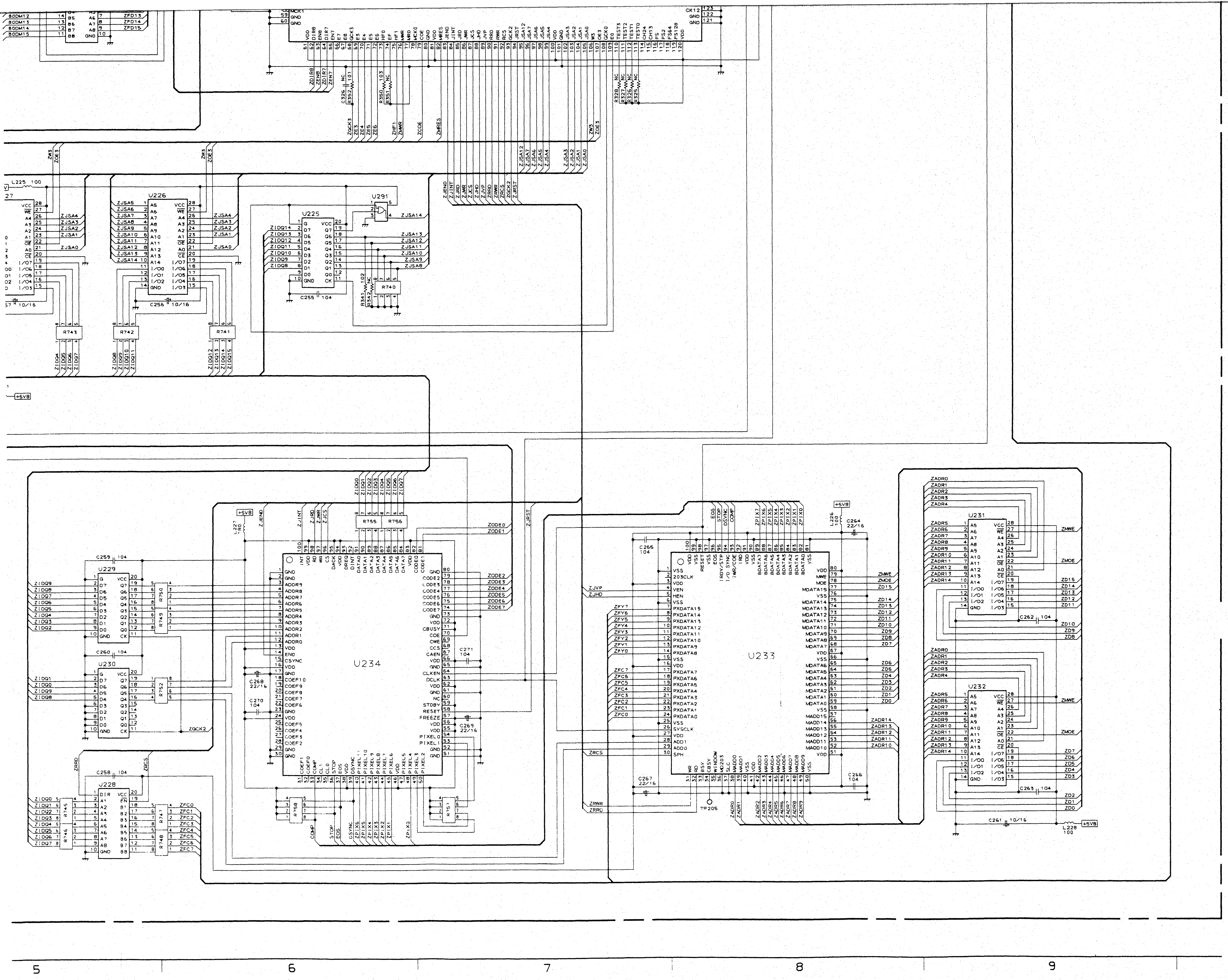

U263
U248
U249
U244
U245
U246
U247
U241
U243
U242
U253
U254
U227
U226
U229
U230
U228
R744
R743
R742
R741
R762
R763
R764
R765
R766
R767
R768
R769
R785
R784
R787
R786
R781
R780
R783
R782
R760
R761
R750
R749
R752
R745
R746
R747
R748
C318 104
C275 NC
C285 NC
C280 104
C281 104
C282 104
C283 104
C279 10/16
C277 104
C276 22/16
C278 104
C292 10/16
C290 104
C293 10/16
C291 104
C257 10/16
C256 10/16
C259 104
C260 104
C258 104
C328 NC
C329 NC
L225 100
L231 100
L235 100
+5V
+5VB
TP208
TP209
TP206
TP207
ZGCK3
ZGCK2
ZMWR
ZMRES
ZCOE
ZHF1
ZE6
ZE5
ZE4
ZE3
ZRRD
ZRCS
ZW3
ZOE3
A
B
C
1
2
3
4
5

RAM OF JPEG/SCSI BOARD (JPEG SECTION) (2/2)


TO
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
...SD
FROM
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
IOR, IRQ
TO
JPEG/SCSI BOARD
(JPEG SECTION) (1/2)
U203
U204
U206
U207
U212
U213
U216
U219
U220
U221
U222
P2
+5VB
L222
1R0

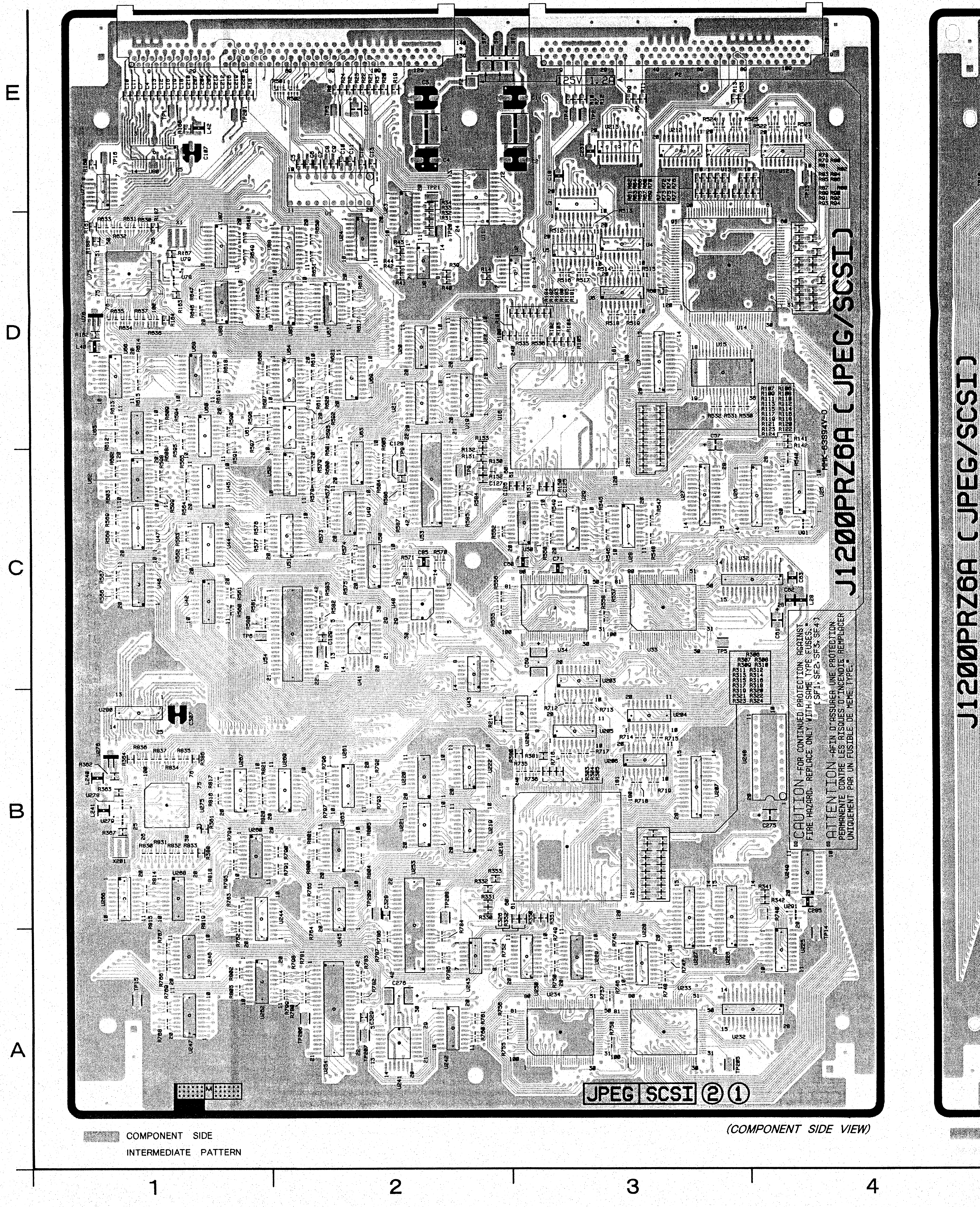
<Index>
JPEG/SCSI BOARD
(JPEG SECTION) (2/2)

U202	E4
U203	G9
U204	F9
U205	F5
U206	F5
U207	E8
U212	E9
U213	E9
U216	E7
U219	E5
U220	E5
U221	E5
U222	D5
U225	C6
U226	C6
U227	C5
U228	A5
U229	B5
U230	B5
U231	B9
U232	A9
U233	B8
U234	B6
U241	B4
U242	B4
U243	C4
U244	B2
U245	B3
U246	B3
U247	B3
U253	A2
U254	A3
U260	E1
U261	D1
U262	D1
U263	C1
U266	D2
U267	D3
U268	E3
U269	E4
U275	F3
U276	F3
U278	F3
U279	F2
U280	F2
U291	C6


U226
U291
U225
R743
R742
R741
C256 10/16
C255 104
R740
L225 100
+5VB
U229
U230
U228
R750
R749
R752
R745
R746
R747
R748
C259 104
C260 104
C258 104
U234
R755
R756
R758
R757
C268 22/16
C270 104
C271 104
C269 22/16
L227 100
U233
C265 104
C264 22/16
L226 100
C267 22/16
C266 104
TP205
U231
U232
C262 104
C263 104
C261 10/16
L228 100
5
6
7
8
9

CONDUCTOR VIEW OF JPEG/SC

JPEG/SCSI BOARD (JPEG SECTIO

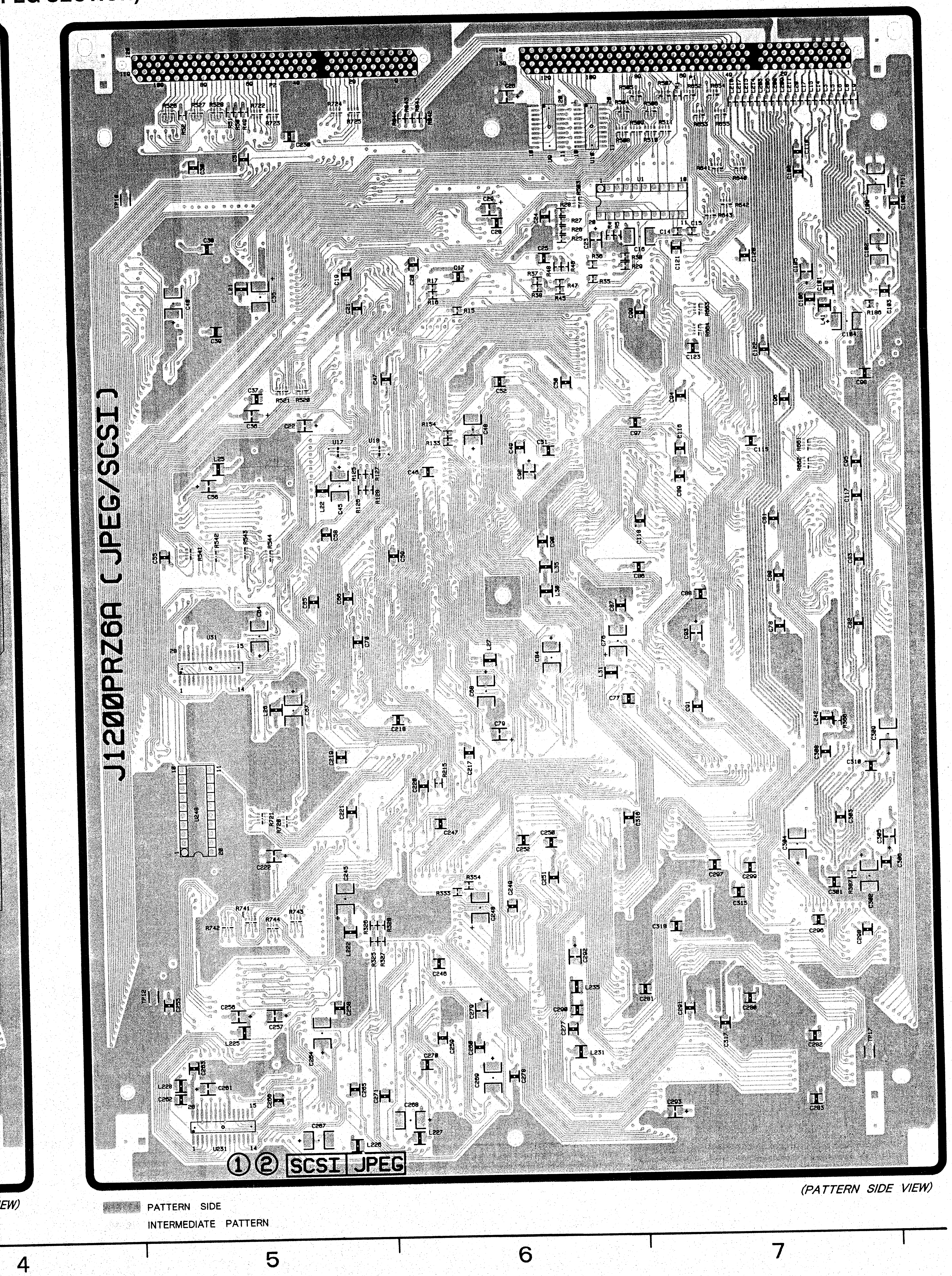

E
D
C
B
A
1
2
3
4
J1200PRZ6A (JPEG/SCSI)
MMK-63894V-0
JPEG SCSI ② ①
CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES. (SF1, SF2, SF3, SF4)
ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE.
125V 1.2A

▨ COMPONENT SIDE
INTERMEDIATE PATTERN

(COMPONENT SIDE VIEW)

JPEG/SCSI BOARD (JPEG SECTION)

PEG SECTION)

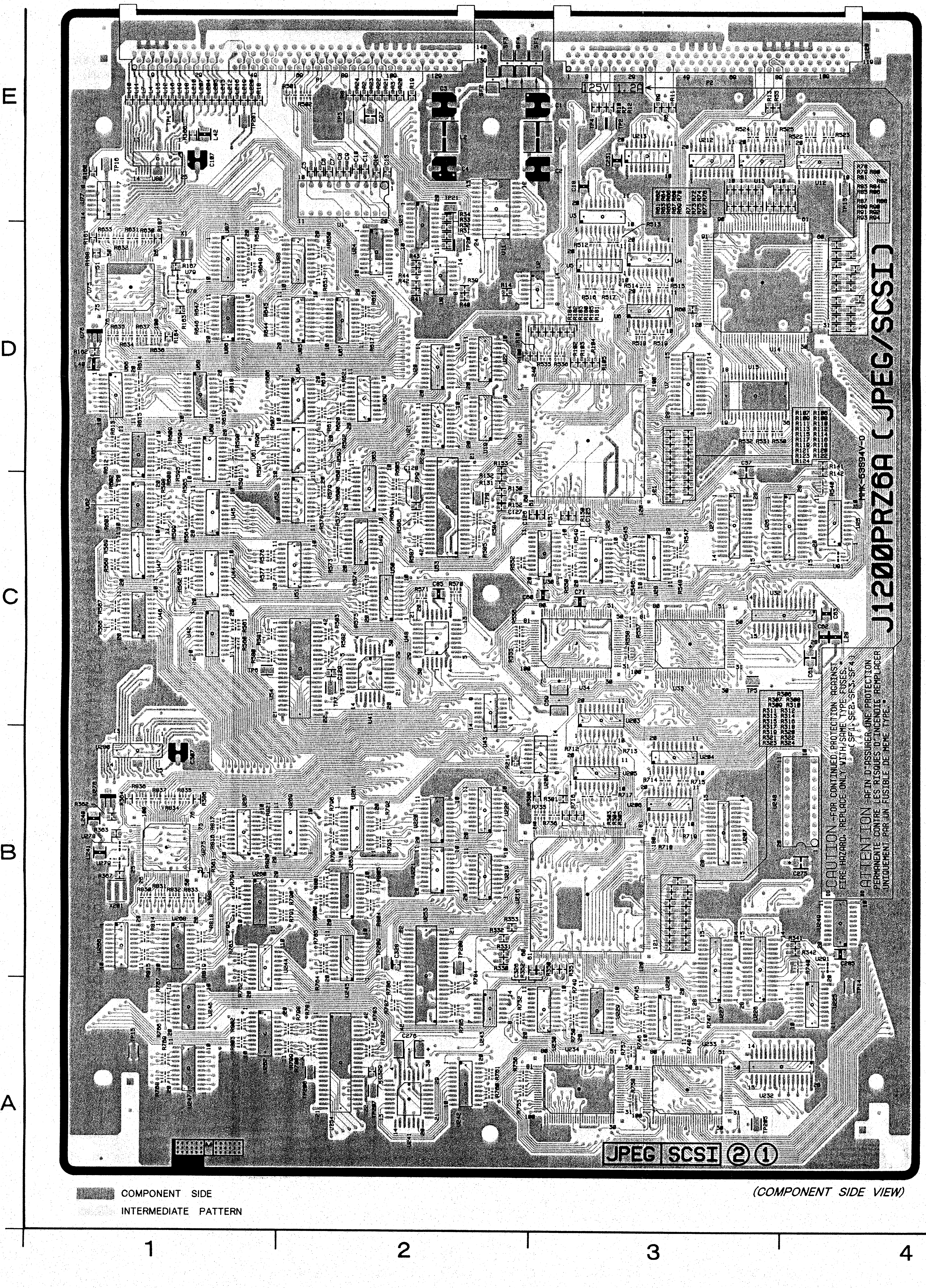

J1200PRZ6A (JPEG/SCSI)
① ② SCSI JPEG
(PATTERN SIDE VIEW)
EW)
PATTERN SIDE
INTERMEDIATE PATTERN
4
5
6
7

<Index>
JPEG/SCSI BOARD
(SCSI SECTION)

U1	E2
U2	D3
U3	E3
U4	D3
U5	D3
U6	D3
U7	D3
U8	D2
U9	E6
U10	E6
U11	E2
U12	E4
U13	E3
U14	D3
U16	D3
U17	D5
U18	D5
U19	D2
U20	D2
U21	D2
U22	D2
U23	E2
U24	D2
U25	C4
U26	C3
U27	C3
U28	C3
U29	C3
U30	C3
U31	C5
U32	C3
U33	C3
U34	C3
U41	C2
U42	C1
U43	C2
U44	C1
U45	C1
U46	C1
U47	C1
U48	C2
U49	C2
U50	C2
U51	C2
U52	C2
U53	C2
U54	C2
U60	D1
U61	D2
U62	C1
U63	C2
U66	D1
U67	D2
U68	D1
U69	D2
U75	D1
U76	D1
U77	E1
U78	D1
U79	D1
U80	E1
U85	D2
U86	D1
U87	D1
U88	D2
U91	C4

CONDUCTOR VIEW OF JPEG/SCSI

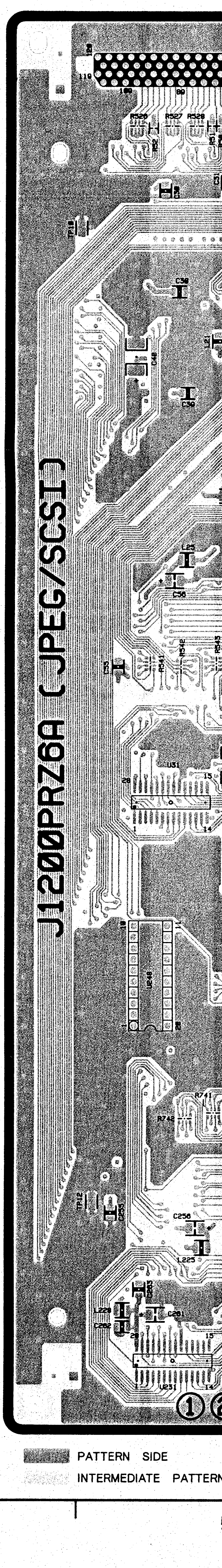
JPEG/SCSI BOARD (SCSI S



E
D
C
B
A
1
2
3
4
J1200PRZ6A (JPEG/SCSI)
HMK-63894V-0
CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES. (SF1, SF2, SF3, SF4)
ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE.
125V 1.2A
JPEG SCSI ②①

▨ COMPONENT SIDE
▨ INTERMEDIATE PATTERN

(COMPONENT SIDE VIEW)

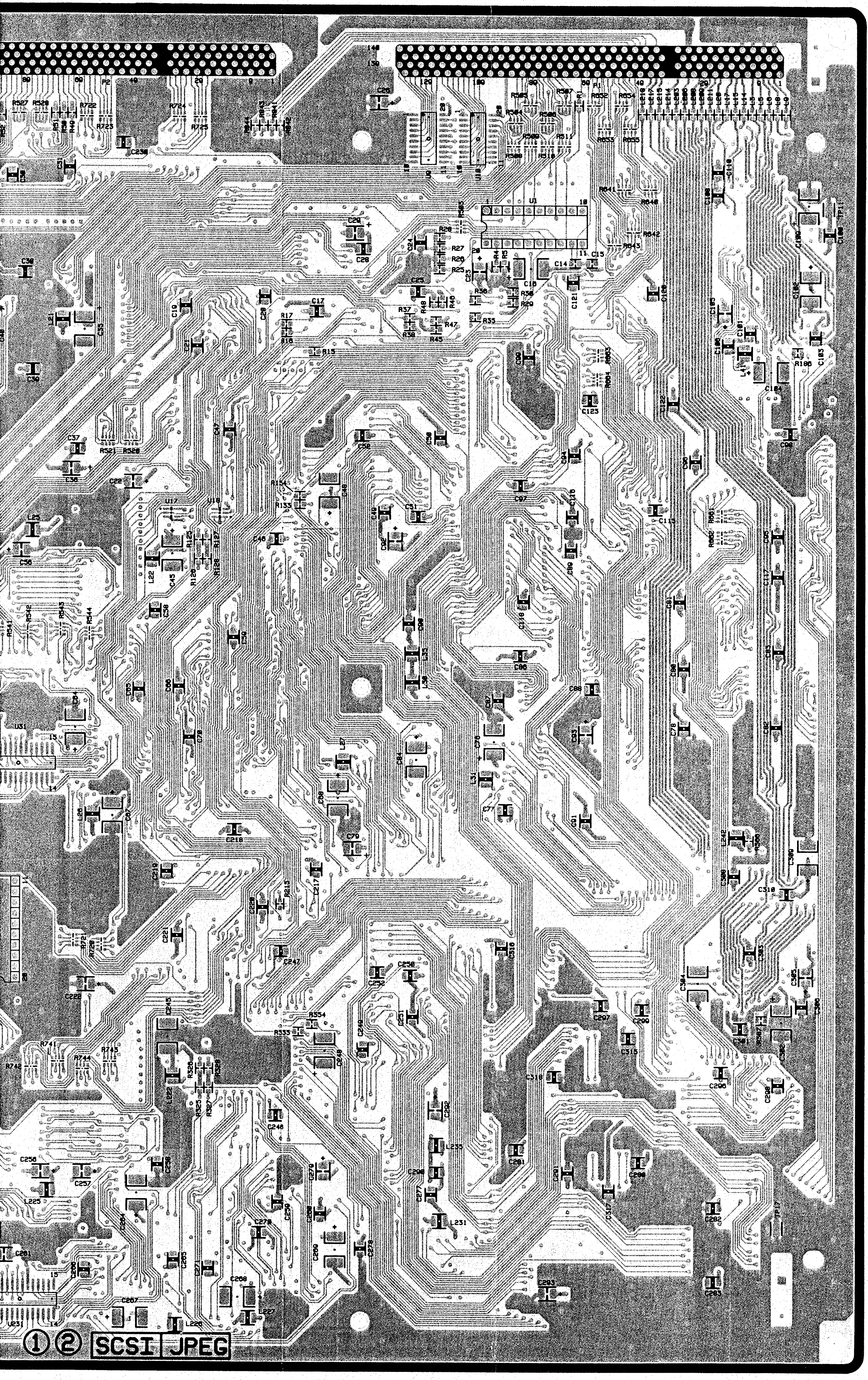


J1200PRZ6A (JPEG/SCSI)
J1200PRZ6A (JPEG/SCSI)
①②

▨ PATTERN SIDE
▨ INTERMEDIATE PATTERN

SCSI BOARD (SCSI SECTION)

SCSI SECTION)



(PATTERN SIDE VIEW)

IDE

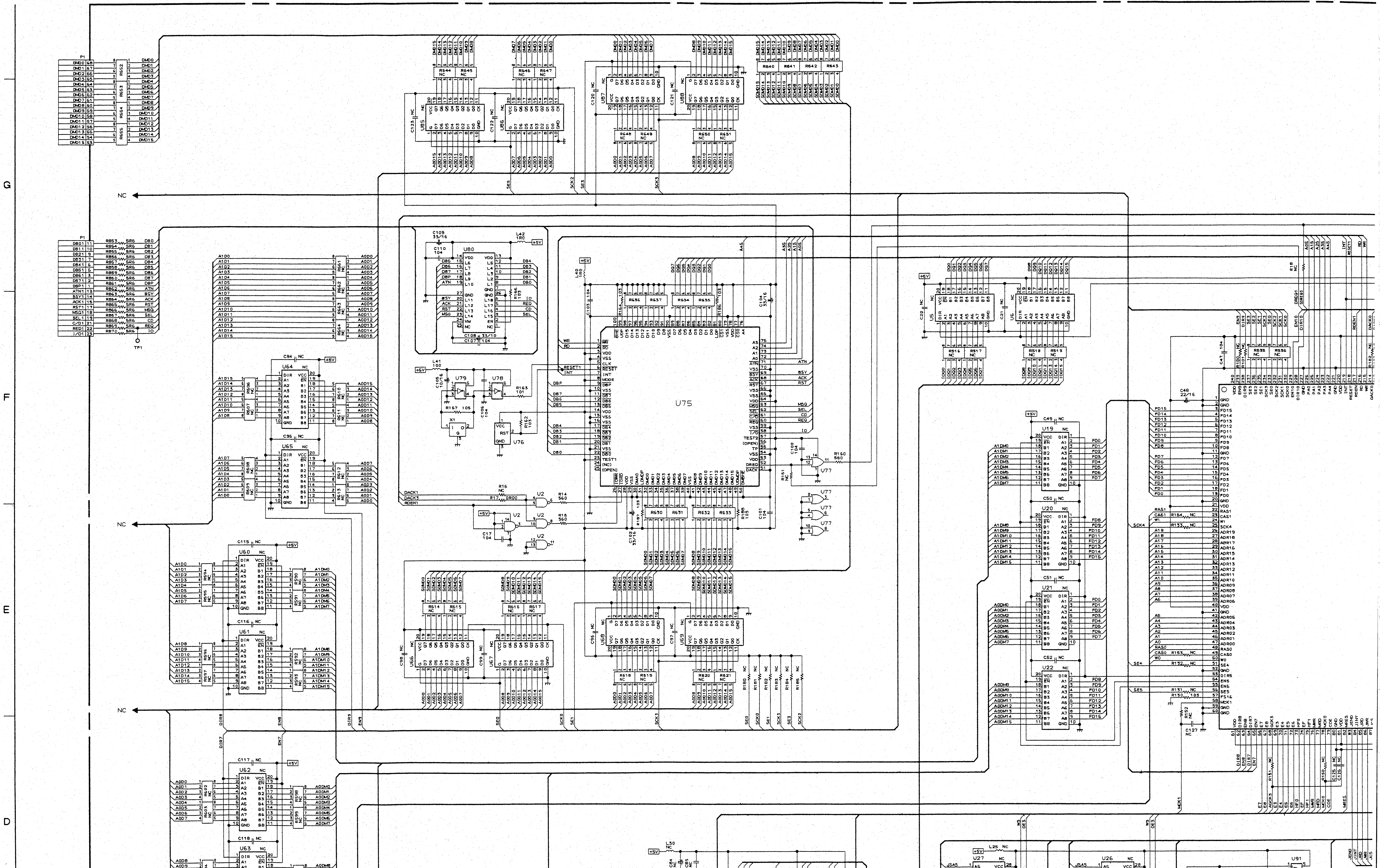
E PATTERN

<Index>
JPEG/SCSI BOARD (SCSI SECTION)

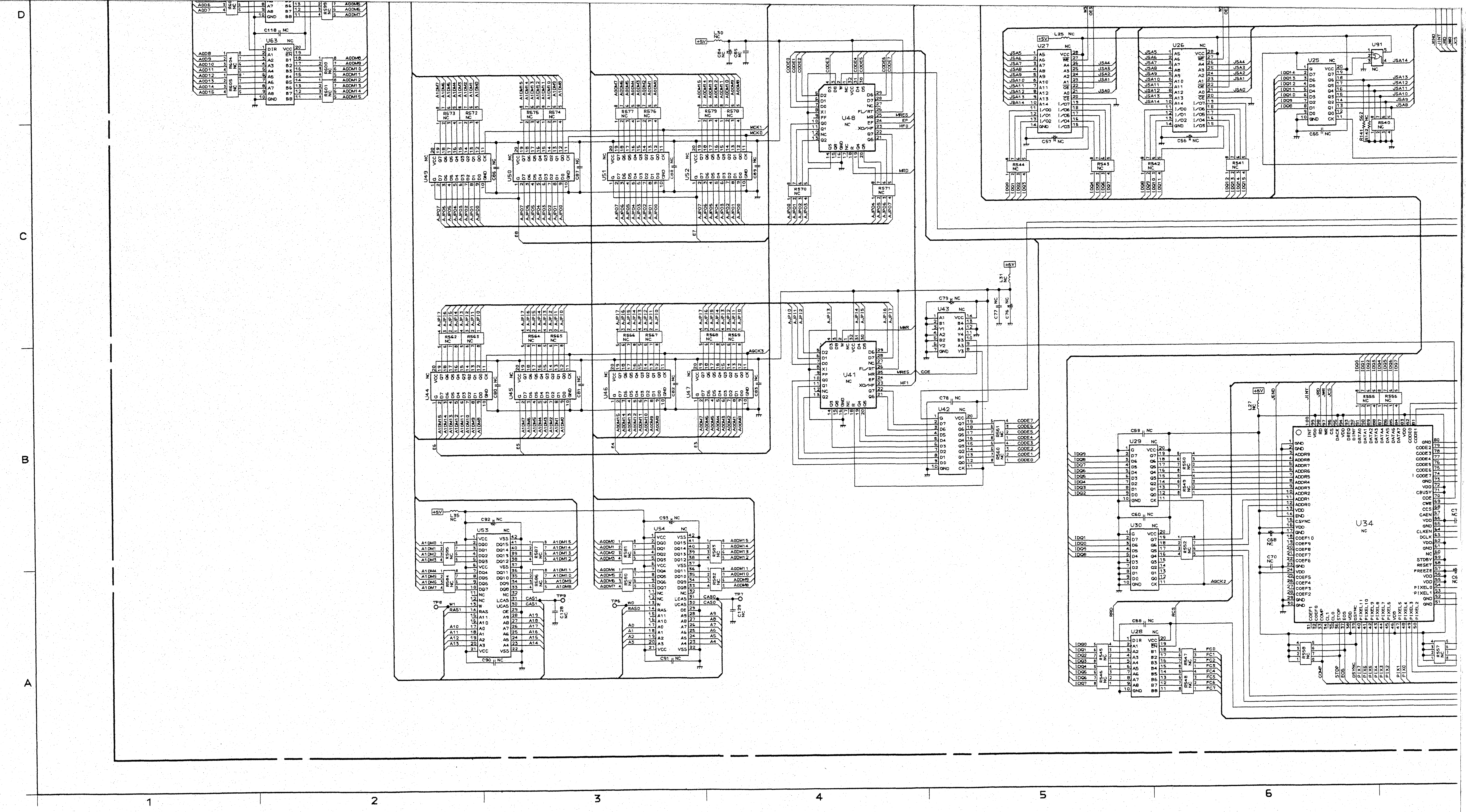
U202	B3
U203	C3
U204	B3
U205	B3
U206	B3
U207	B3
U212	E3
U213	E3
U216	B3
U219	B2
U220	B2
U221	B2
U222	B2
U225	A4
U226	A3
U227	A3
U228	A3
U229	A3
U230	A3
U231	A5
U232	A3
U233	A3
U234	A3
U241	A2
U242	A2
U243	A2
U244	B1
U245	B2
U246	A1
U247	A1
U253	B2
U254	A2
U260	B1
U261	B2
U262	A1
U263	B2
U266	B1
U267	B1
U268	B1
U269	B2
U275	B1
U276	B1
U278	B1
U279	B1
U280	B1
U291	B4

SCHEMATIC DIAGRAM OF JPEG/SCSI BOAR

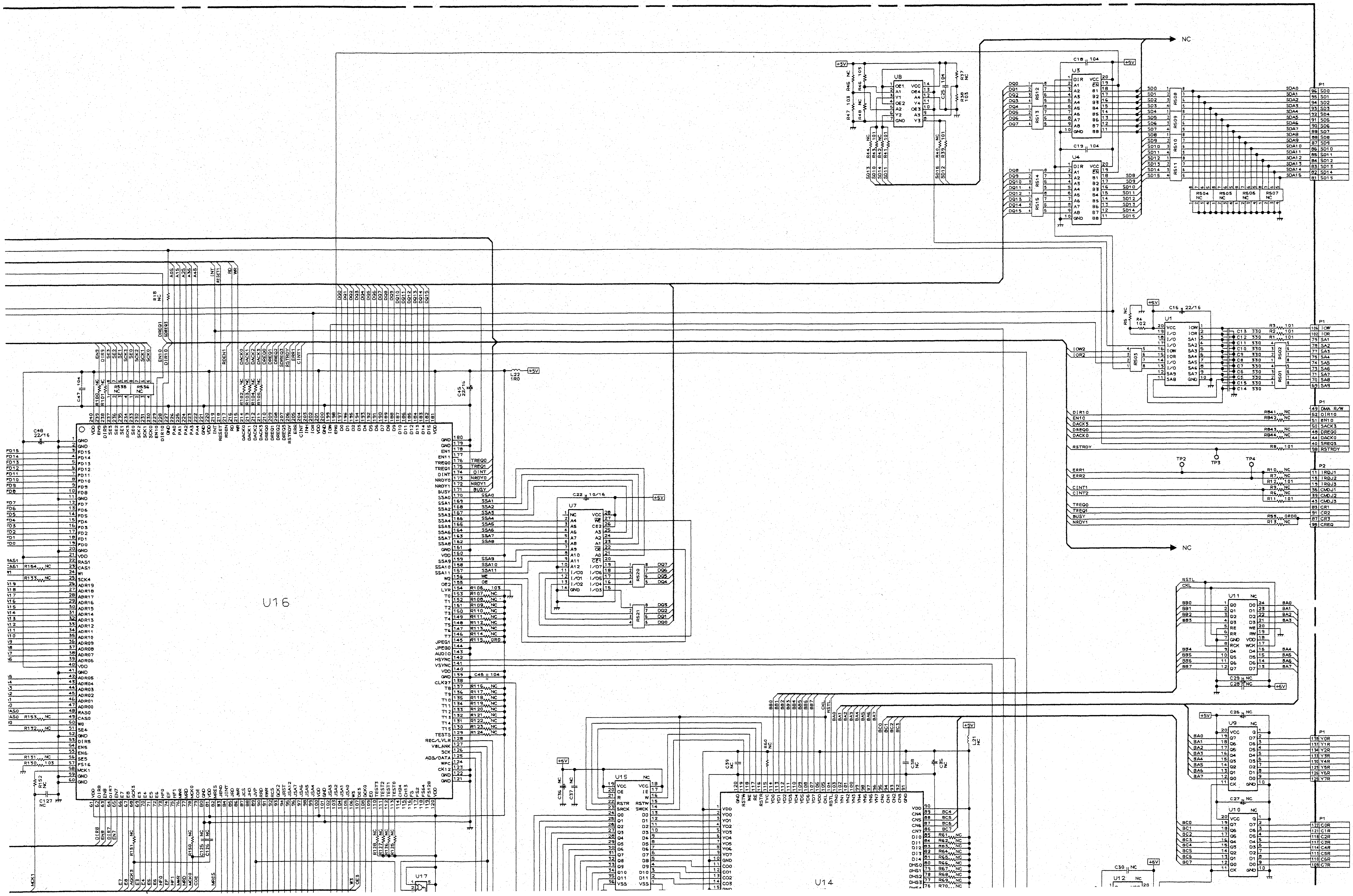
JPEG/SCSI BOARD (SCSI SECTION)



G
F
E
D
P1
TP1
NC
+5V
U75
U80
U76
U77
U78
U79
U2
X1
U64
U65
U60
U61
U62
U63
U85
U86
U87
U88
U66
U67
U68
U69
U5
U6
U19
U20
U21
U22
U26
U27
U91
L40
L41
L42
L25
L30
RESET1
INT
TEST1
TEST2
DACK1
DACK3
RDEN1

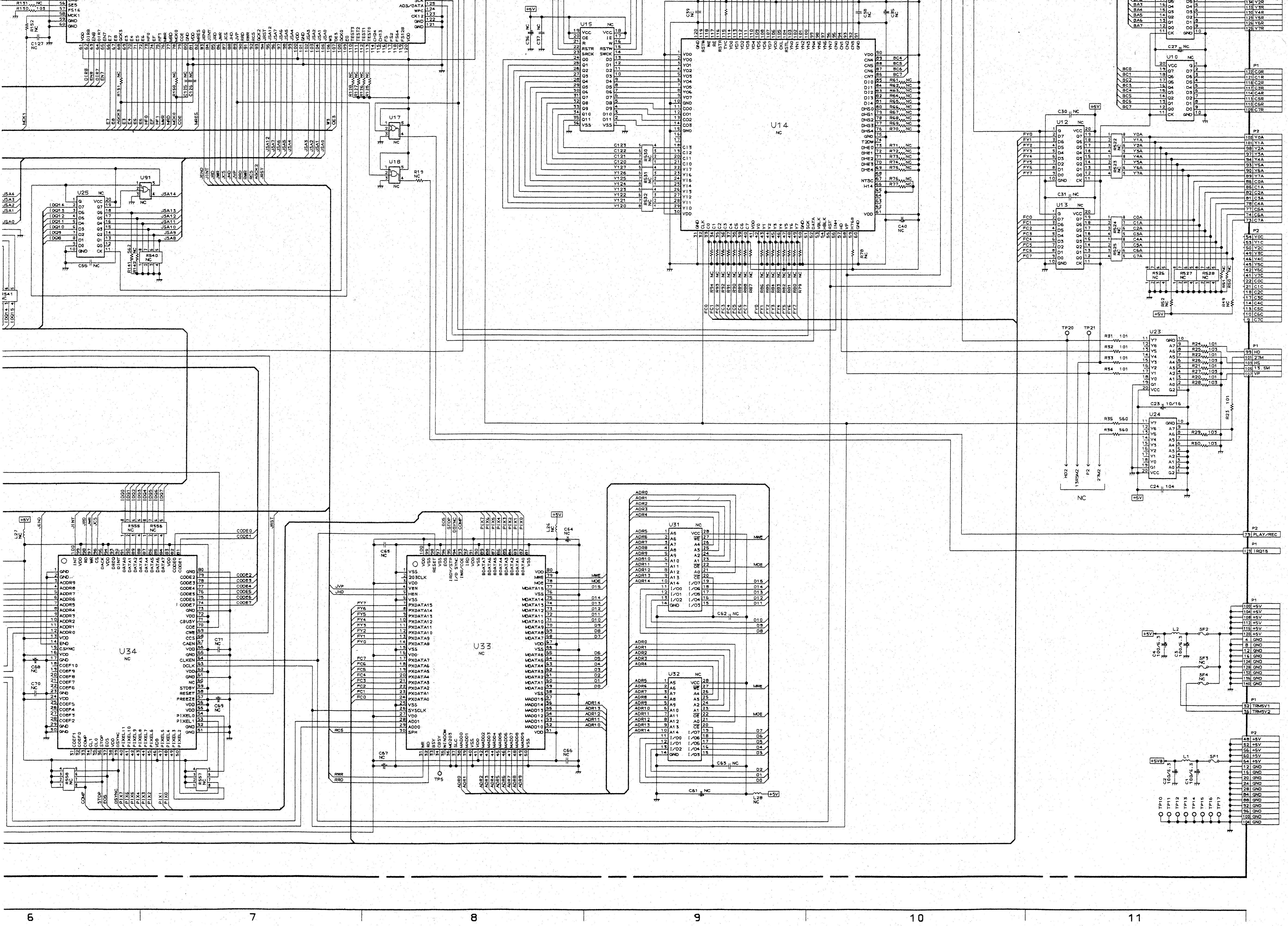

D
C
B
A
1
2
3
4
5
6
U63
U48
U49
U50
U51
U52
U27
U26
U25
U91
U41
U43
U42
U44
U45
U46
U47
U53
U54
U29
U30
U28
U34
+5V
NC

OF JPEG/SCSI BOARD (SCSI SECTION)


U16
U14
U7
U8
U3
U4
U1
U11
U9
U10
U15
U17
U12
P1
P2
NC
+5V
TP2
TP3
TP4

<Index>
JPEG/SCSI BOARD (SCSI SECTION)

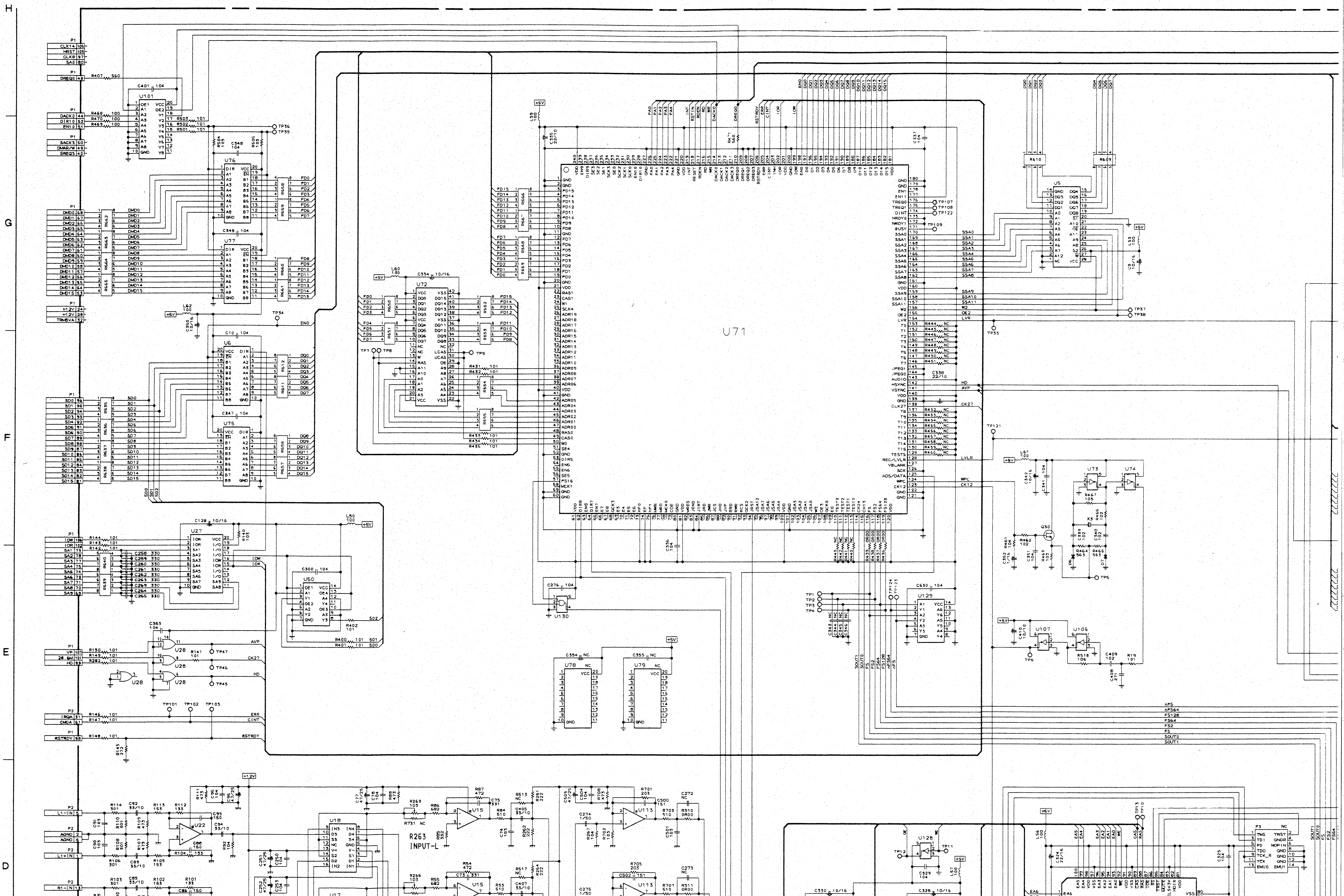
U1	F11
U2	E3
U3	G11
U4	G11
U5	F5
U6	F5
U7	F8
U8	G10
U9	E11
U10	D11
U11	E11
U12	D11
U13	D11
U14	D9
U15	D9
U16	E7
U17	D8
U18	D8
U19	F5
U20	E5
U21	E5
U22	E5
U23	C11
U24	C11
U25	D6
U26	D6
U27	D5
U28	A5
U29	B5
U30	B5
U31	B9
U32	A9
U33	B8
U34	B6
U41	B4
U42	B5
U43	C5
U44	B2
U45	B3
U46	B3
U47	B4
U48	D4
U49	C2
U50	C3
U51	C3
U52	C4
U53	A3
U54	A3
U60	E2
U61	E2
U62	D2
U63	D2
U66	E3
U67	E3
U68	E3
U69	E4
U75	F4
U76	F3
U77	E4/F4
U78	F3
U79	F3
U80	G3
U85	G3
U86	G3
U87	G3


U14
U15
U17
U18
U91
U25
U12
U13
U10
U23
U24
U34
U33
U31
U32
P1
P2
NC
+5V
+5VB
TP20
TP21
TP5
PLAY/REC
IRQ15
TRMSV1
TRMSV2
6
7
8
9
10
11

U68	E3
U69	E4
U75	F4
U76	F3
U77	E4/F4
U78	F3
U79	F3
U80	G3
U85	G3
U86	G3
U87	G3
U88	G4
U91	D7

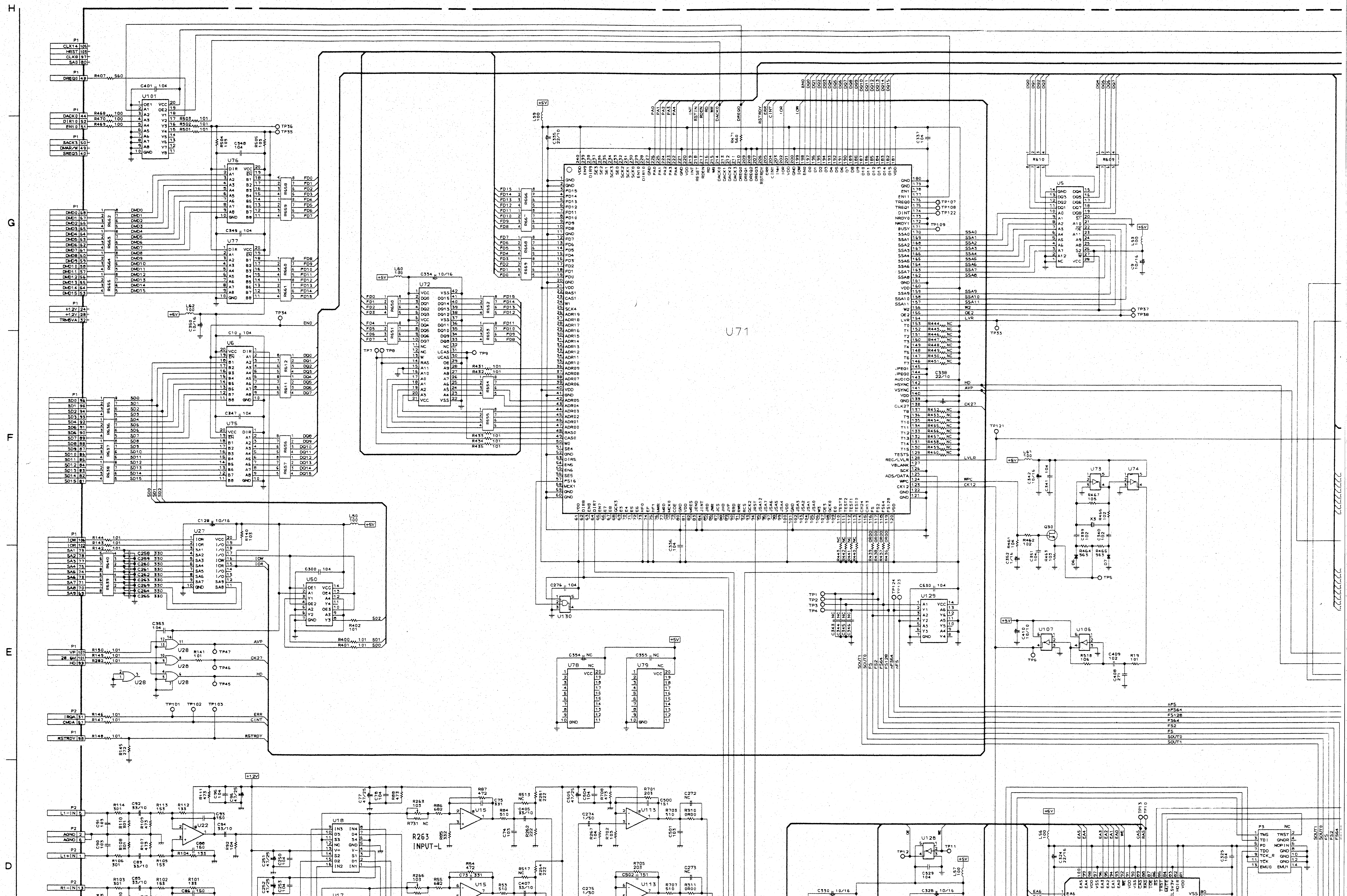
AUDIO BOARD

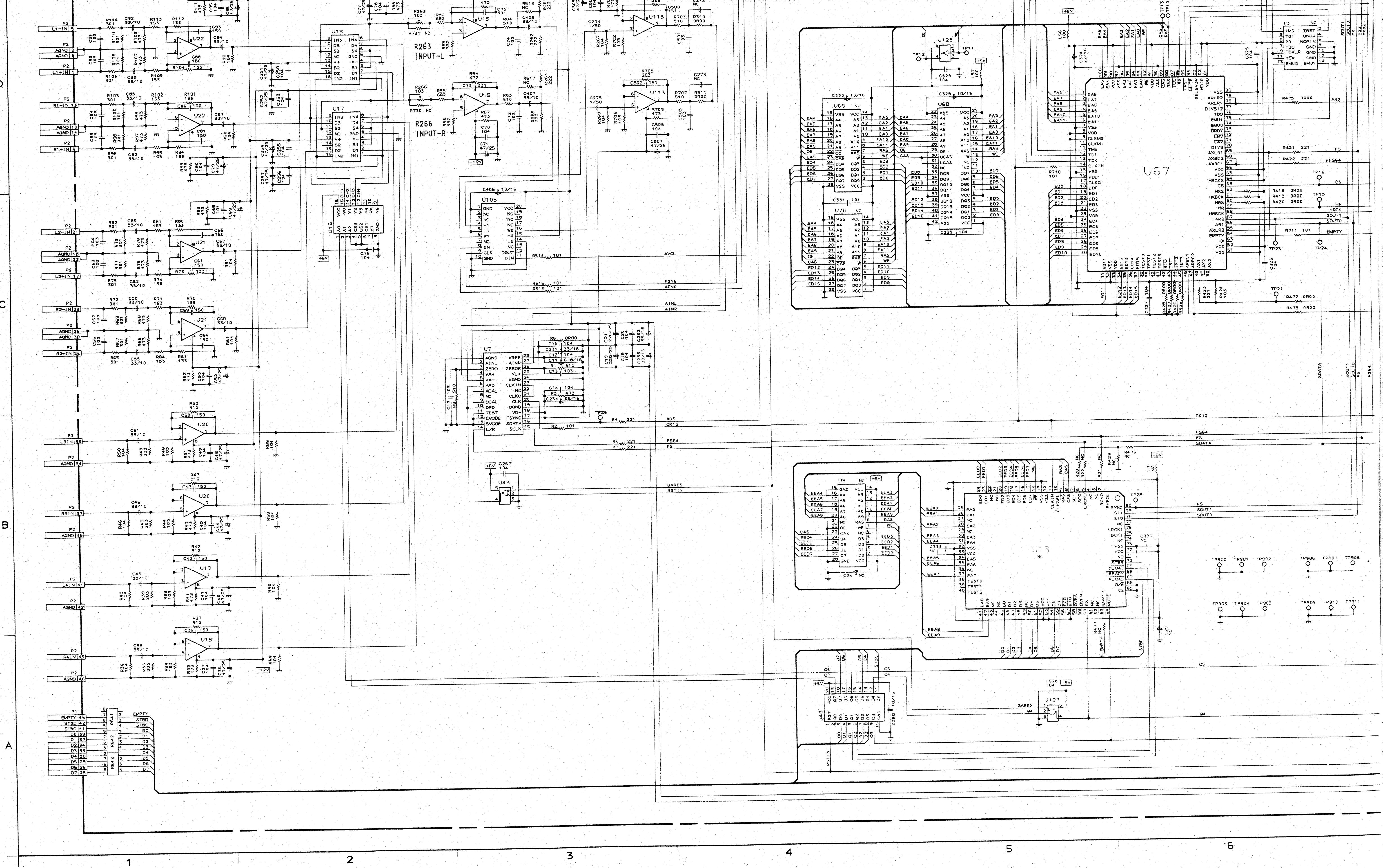
SCHEMATIC DIAGRAM OF A


H
G
F
E
D
P1
P2
P3
U71
U72
U76
U77
U6
U75
U101
U27
U50
U28
U130
U78
U79
U5
U73
U74
U107
U106
U129
U128
U18
U15
U22
U113
U17
R263
INPUT-L
+5V
+12V
+6V
CLK14
HRST
CLK8
SA0
DREQ0
DACK0
DIR10
EN10
SACK3
DMAR/W
SREQ3
DMD0
DMD15
SD0
SD15
IOW
IOR
VP
28.6M
HD
IRQA
CMDA
RSTRDY
L1-IN
AGND
L1+IN
R1-IN
TP36
TP35
TP34
TP47
TP46
TP45
TP101
TP102
TP103
TP107
TP108
TP122
TP109
TP37
TP38
TP33
TP121
TP5
TP6
TP1
TP2
TP3
TP4
TP124
TP123
TP11
TP12
TP13
TP10
AVP
CK27
ERR
CINT
EN0
LVR
LVLR
WPC
CK12
NFS
NFS64
FS128
FS64
FS2
FS
SOUT0
SOUT1

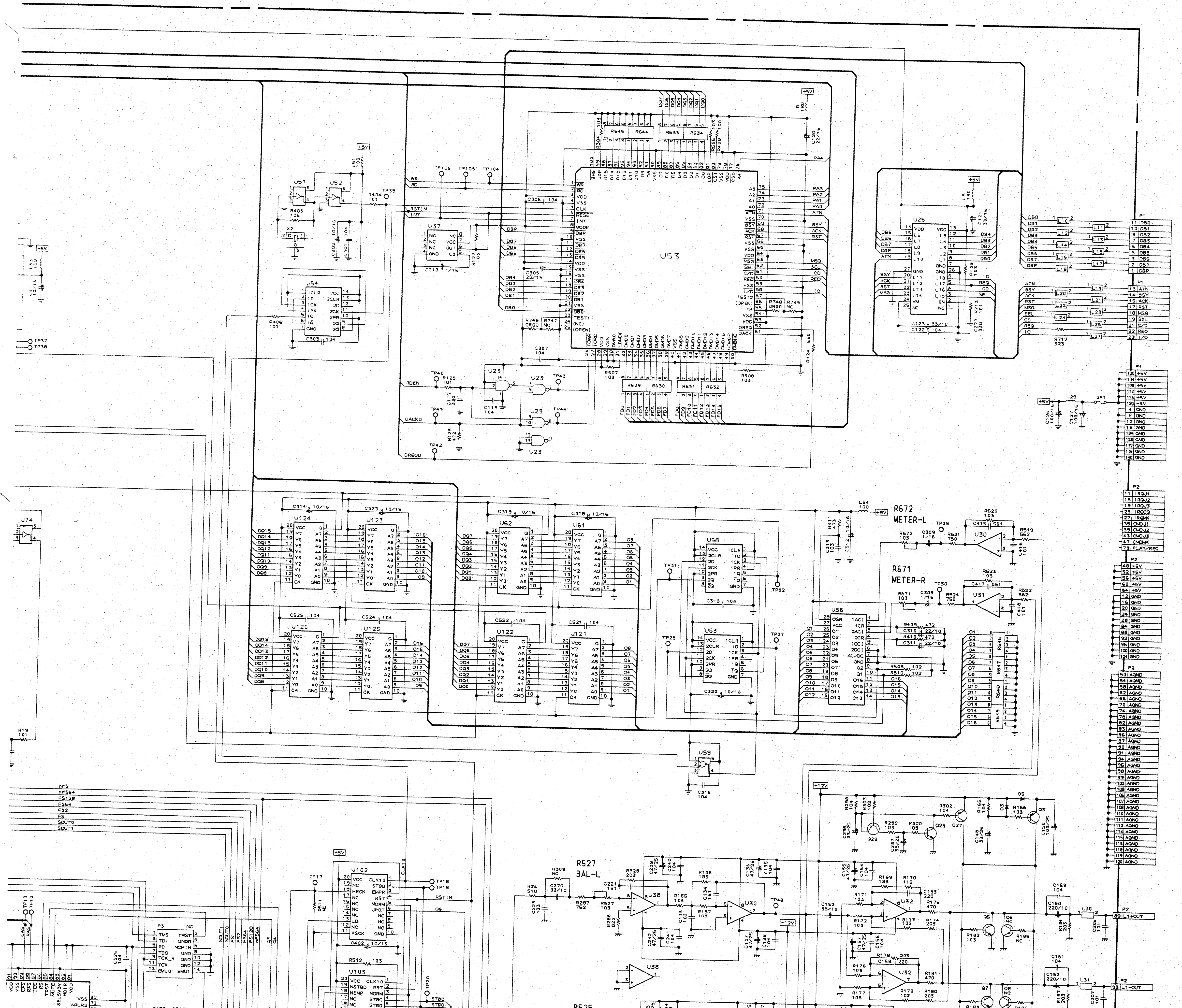
AUDIO BOARD

SCHEMATIC DIAGRAM OF A


H
G
F
E
D
P1
P2
P3
U101
U76
U77
U6
U75
U72
U71
U5
U27
U50
U28
U130
U78
U79
U129
U73
U74
U107
U106
Q30
U22
U18
U15
U113
U128
U17
R263
INPUT-L
+5V
+6V
+12V
CLK14
HRST
CLK8
SA0
DREQ0
DACK0
DIR10
EN10
SACK3
DMAR/W
SREQ3
+12V
TRMSVA
IOW
IOR
VP
28.6M
HD
IRQA
CMDA
RSTRDY
L1-IN
AGND
L1+IN
R1-IN
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP11
TP12
TP33
TP34
TP35
TP36
TP37
TP38
TP45
TP46
TP47
TP101
TP102
TP103
TP107
TP108
TP109
TP121
TP122
TP123
TP124
AVP
CK27
CK12
ERR
CINT
LVLR
NFS
NFS64
FS128
FS64
FS2
FS
SOUT0
SOUT1


R263
INPUT-L
R266
INPUT-R
U67
U13
U18
U17
U16
U105
U7
U43
U68
U69
U70
U9
U40
U127
U128
P1
P2
P3
D
C
B
A
1
2
3
4
5
6

ATIC DIAGRAM OF AUDIO BOARD

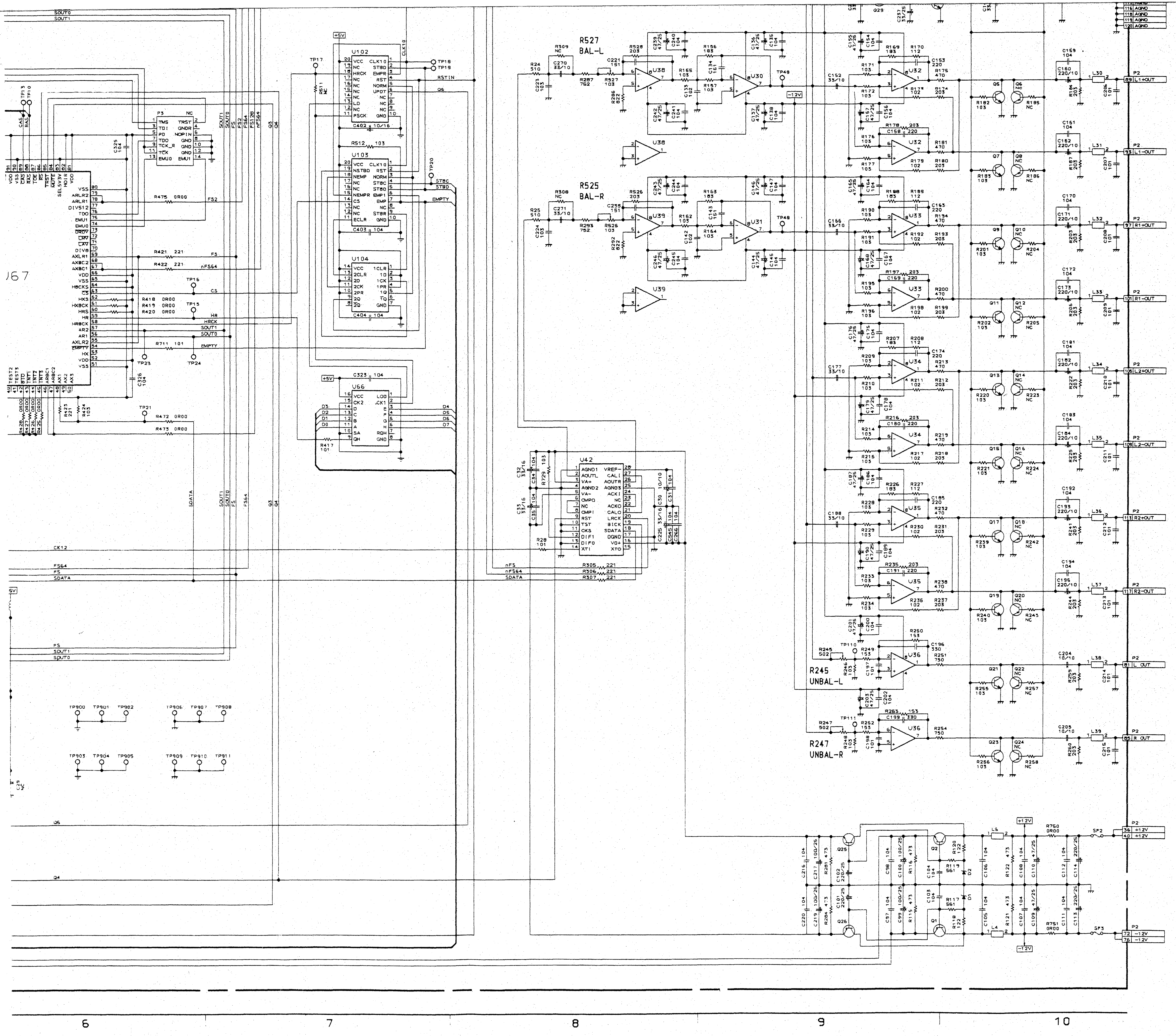

U53
U26
U37
U51
U52
U54
U23
U124
U123
U62
U61
U58
U56
U63
U125
U122
U121
U59
U74
U30
U31
U32
U38
U102
U103
R672
METER-L
R671
METER-R
R527
BAL-L
P1
P2
P3
+5V
+12V
-12V
L1+OUT
L1-OUT

<Index>
AUDIO BOARD

U5	G5
U6	F2
U7	C3
U15	D3
U16	C2
U17	D2
U18	D2
U19	A1/B1
U20	B1
U21	C1
U22	D1
U23	F8
U26	G9
U27	E1
U28	E1
U30	D9,F10
U31	D9,F10
U32	D9
U33	C9/D9
U34	C9
U35	B9/C9
U36	B9
U37	G7
U38	D8
U39	C8/D8
U40	A4
U42	C8
U43	B3
U50	E2
U51	G7
U52	G7
U53	G8
U54	G7
U56	E9
U58	F9
U59	E9
U61	F8
U62	F8
U63	E7
U66	C7
U67	D6
U68	D5
U71	G4
U72	G2
U73	F6
U74	F6
U75	F2
U76	G2
U77	G2
U101	G1
U102	D7
U103	D7
U104	D7
U105	C3
U106	E6
U107	E5
U113	D3
U121	E8
U122	E8
U123	F7
U124	F7
U125	E7
U126	E7
U127	A5
U128	D5
U129	E5
U130	E3

Q1	A10
Q2	A10
Q3	E3
Q5	D10
Q7	D10
Q9	D10
Q11	C10
Q13	C10
Q15	C10
Q17	B10
Q19	B10
Q21	B10
Q23	B10
Q25	A9
Q26	A9
Q27	E10
Q28	E9
Q29	E9
Q30	F5

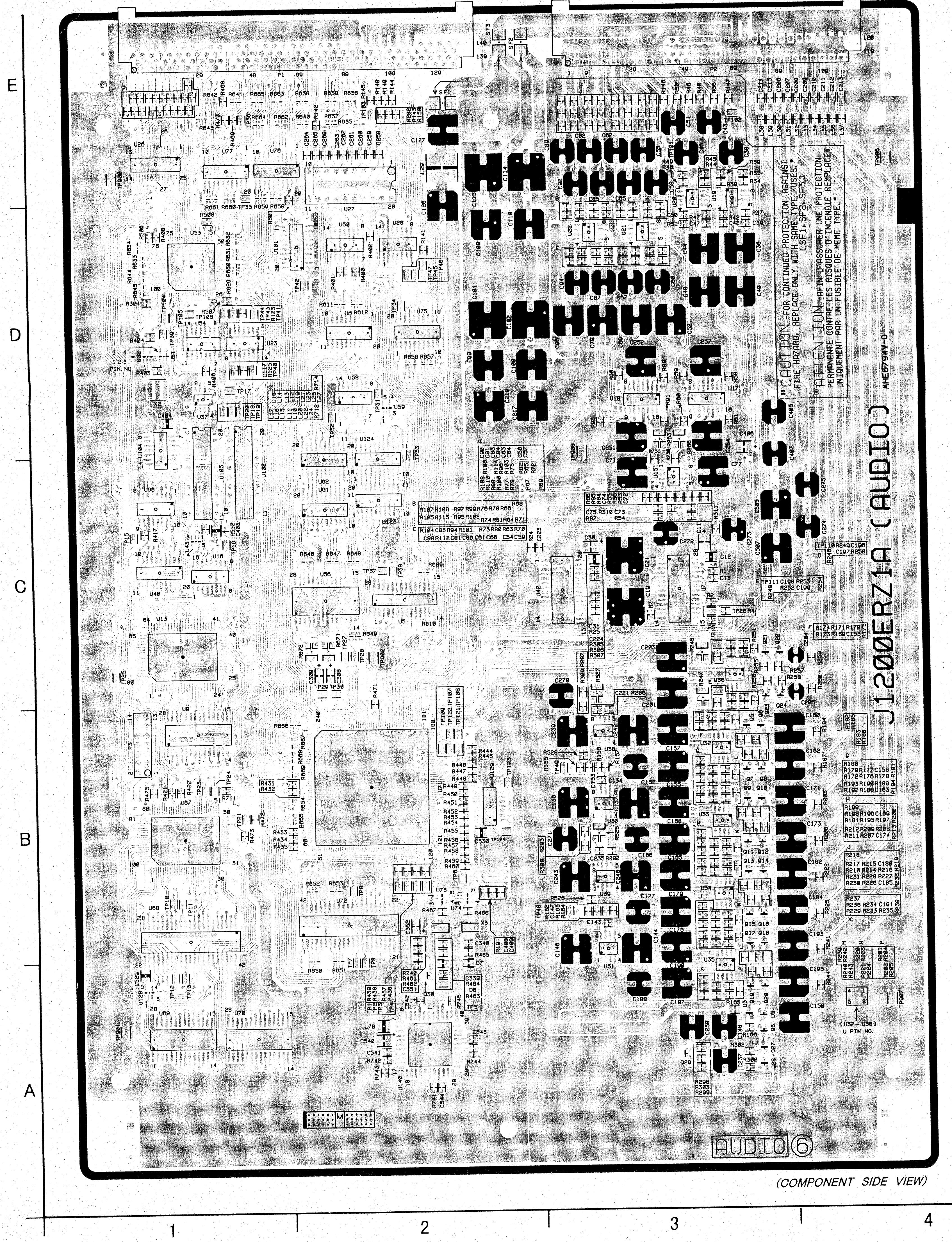
D1	A10
D2	A10
D3	E10
D5	E10
D6	E5
D7	E6


R527
BAL-L
R525
BAL-R
R245
UNBAL-L
R247
UNBAL-R
U102
U103
U104
U56
U42
U38
U39
U30
U31
U32
U33
U34
U35
U36
L1+OUT
L1-OUT
R1+OUT
R1-OUT
L2+OUT
L2-OUT
R2+OUT
R2-OUT
L OUT
R OUT
+12V
-12V
6
7
8
9
10

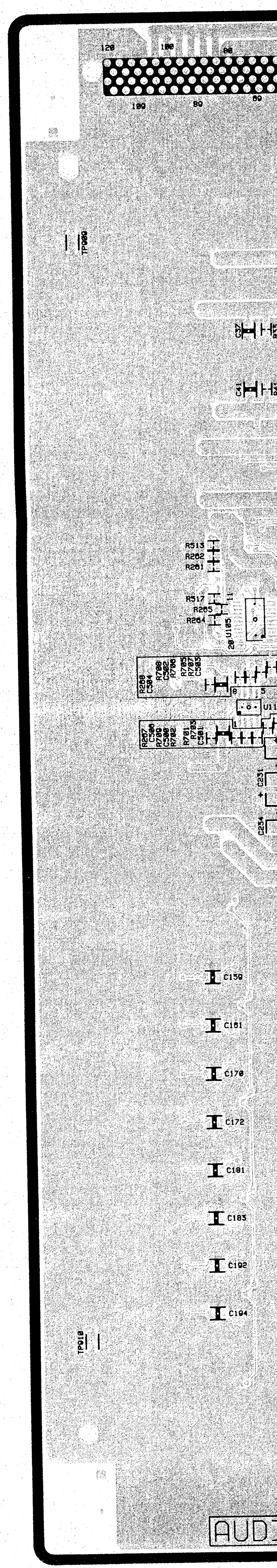
U106	E6
U107	E5
U113	D3
U121	E8
U122	E8
U123	F7
U124	F7
U125	E7
U126	E7
U127	A5
U128	D5
U129	E5
U130	E3
U140	E6

CONDUCTOR VIEW OF AU

AUDIO BOARD

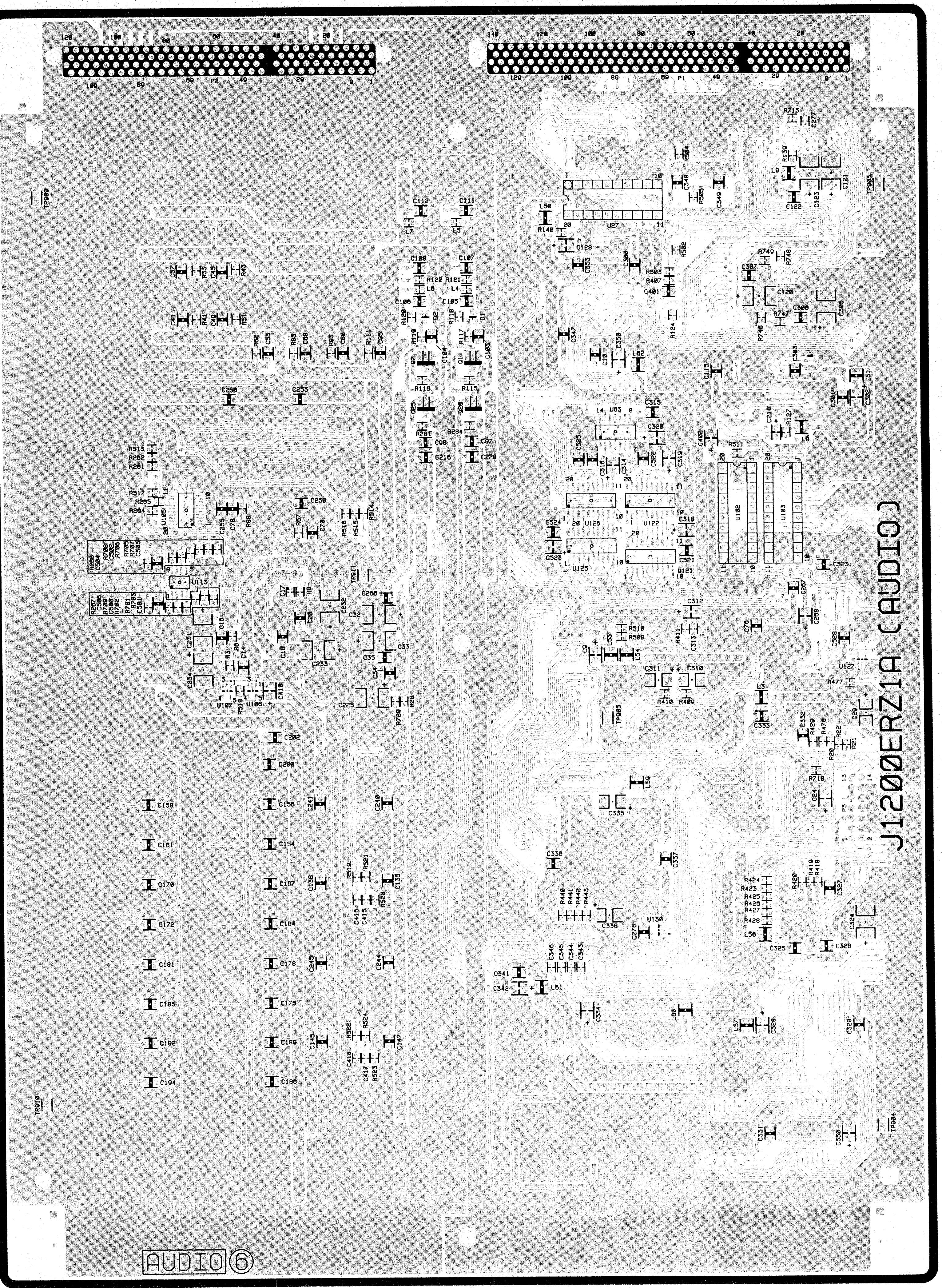

A
B
C
D
E
1
2
3
4
"CAUTION -FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES."
(SF1, SF2, SF3)
"ATTENTION -AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE."
J1200ERZ1A (AUDIO)
AHE6794V-0
AUDIO 6
(U32~U36) U PIN NO.

(COMPONENT SIDE VIEW)



(PATTERN SIDE VIEW)

VIEW OF AUDIO BOARD


J1200ERZ1A (AUDIO)
AUDIO ⑥
P1
P2
P3
U27
U102
U103
U122
U126
U125
U121
U63
U105
U107
U113
U127
U130
TP909
TP903
TP910
TP904
TP905
TP911

(PATTERN SIDE VIEW)

5
6
7

<Index>

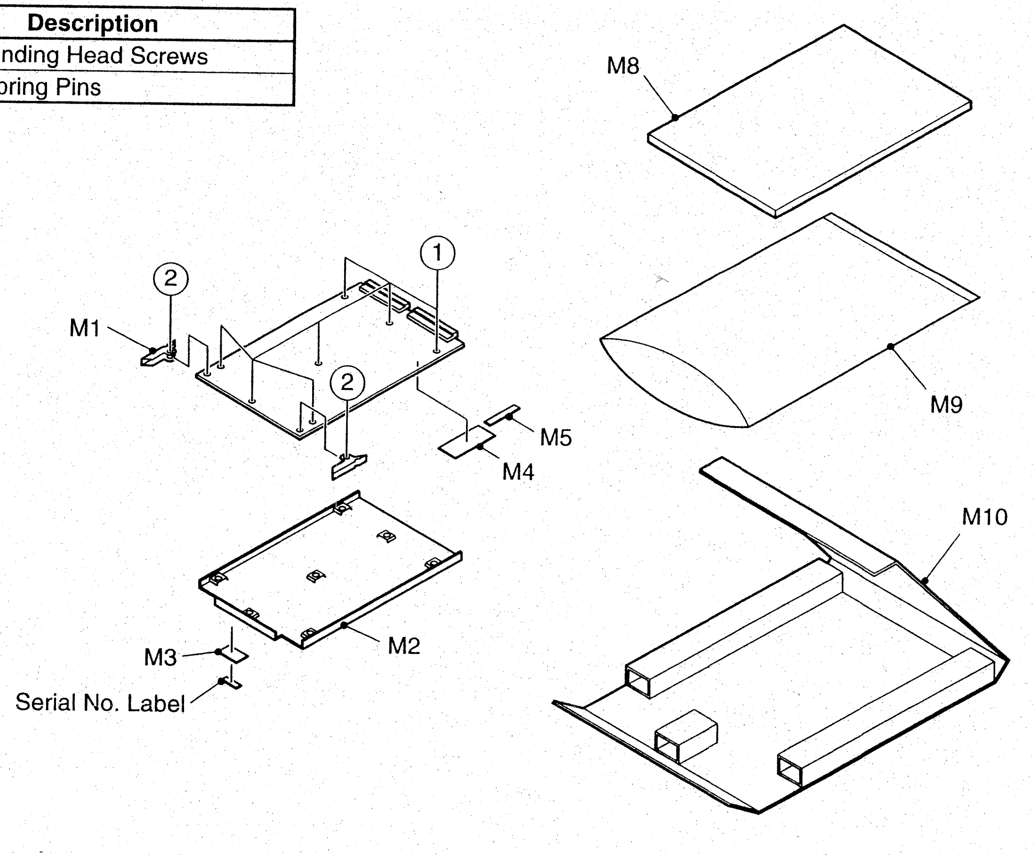
AUDIO BOARD

U5	C2	Q1	D6
U6	D2	Q2	D6
U7	C3	Q3	A3
U15	C3	Q5	B3
U16	C1	Q7	B3
U17	D3	Q9	B3
U18	D3	Q11	B3
U19	D3	Q13	B3
U20	D3	Q15	B3
U21	D3	Q17	B3
U22	D3	Q19	A3
U23	D1	Q21	C3
U26	E1	Q23	C3
U27	E2	Q25	D6
U28	D2	Q26	D6
U30	B3	Q27	A3
U31	B3	Q28	A3
U32	B3	Q29	A3
U33	B3	Q30	A2
U34	B3		
U35	A3	D1	D6
U36	C3	D2	D6
U37	D1	D3	A3
U38	B3	D5	A3
U39	B3	D6	A2
U40	C1	D7	A2
U42	C3		
U43	C1		
U50	D2		
U51	D1		
U52	D1		
U53	D1		
U54	D1		
U56	C2		
U58	D2		
U59	D2		
U61	C2		
U62	C2		
U63	D7		
U66	C1		
U67	B1		
U68	B1		
U71	B2		
U72	B2		
U73	B2		
U74	B2		
U75	D2		
U76	E1		
U77	E1		
U101	D2		
U102	C1		
U103	C1		
U104	D1		
U105	C5		
U106	C5		
U107	C5		
U113	C5		
U121	C7		
U122	C7		
U123	C2		
U124	C2		
U125	C6		
U126	C6		
U127	C7		
U128	A1		
U129	B2		
U130	B7		
U140	A2		

EXPLODED VIEW OF JPEG BOARD

○ Numbers show screws, washers, nuts and etc.

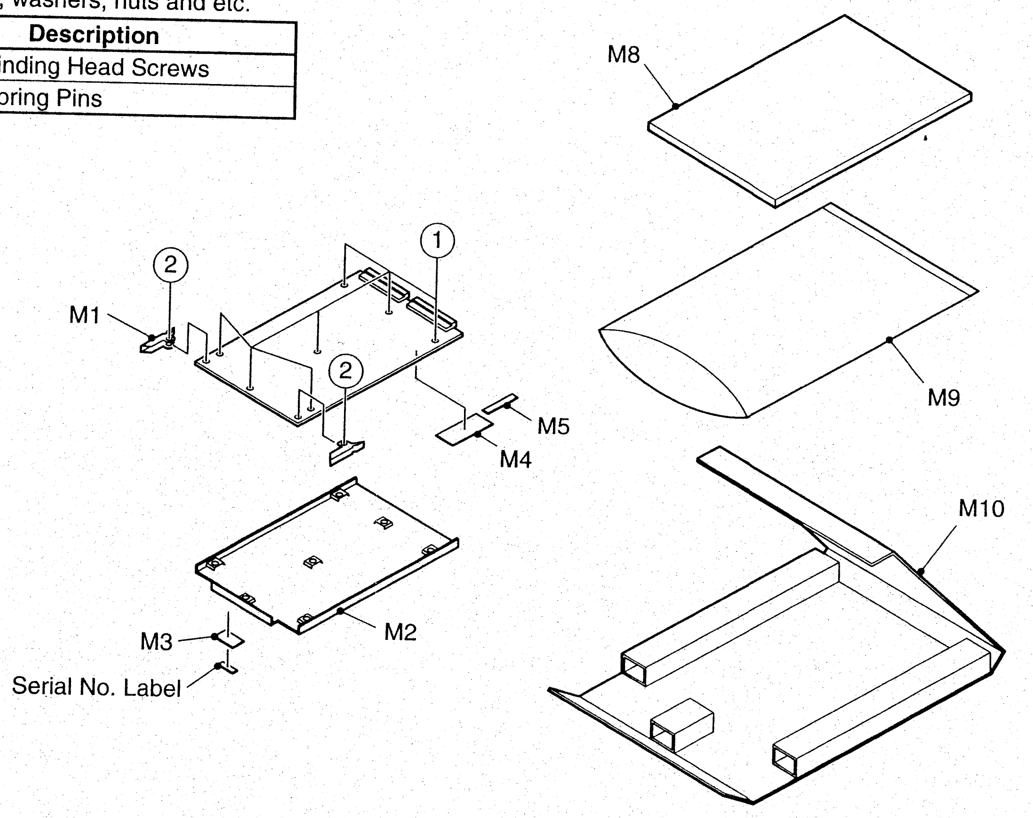
No.	Screws	Description
①	XSB3+6FX	Binding Head Screws
②	YWXPL4B8W	Spring Pins


M8
①
②
M1
②
M9
M5
M4
M10
M3
M2
Serial No. Label

EXPLODED VIEW OF SCSI BOARD

○ Numbers show screws, washers, nuts and etc.

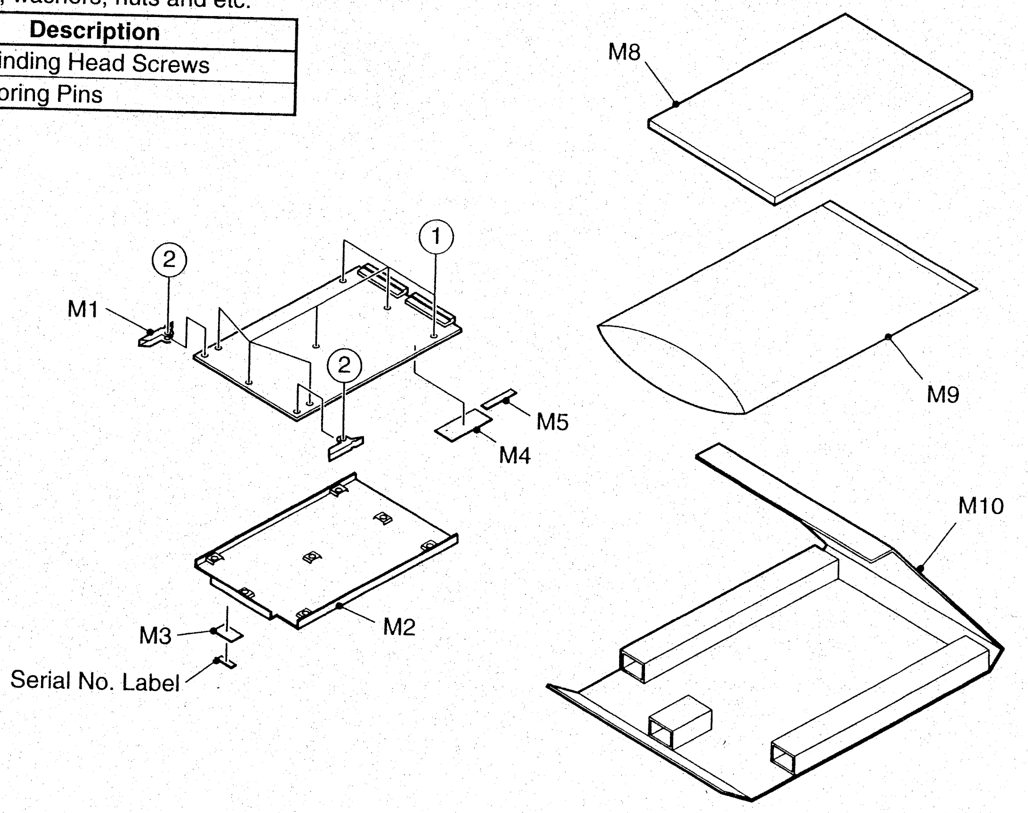
No.	Screws	Description
①	XSB3+6FX	Binding Head Screws
②	YWXPL4B8W	Spring Pins


M8
①
②
M1
②
M9
M5
M4
M10
M3
M2
Serial No. Label

EXPLODED VIEW OF AUDIO BOARD

○ Numbers show screws, washers, nuts and etc.

No.	Screws	Description
①	XSB3+6FX	Binding Head Screws
②	YWXPL4B8W	Spring Pins

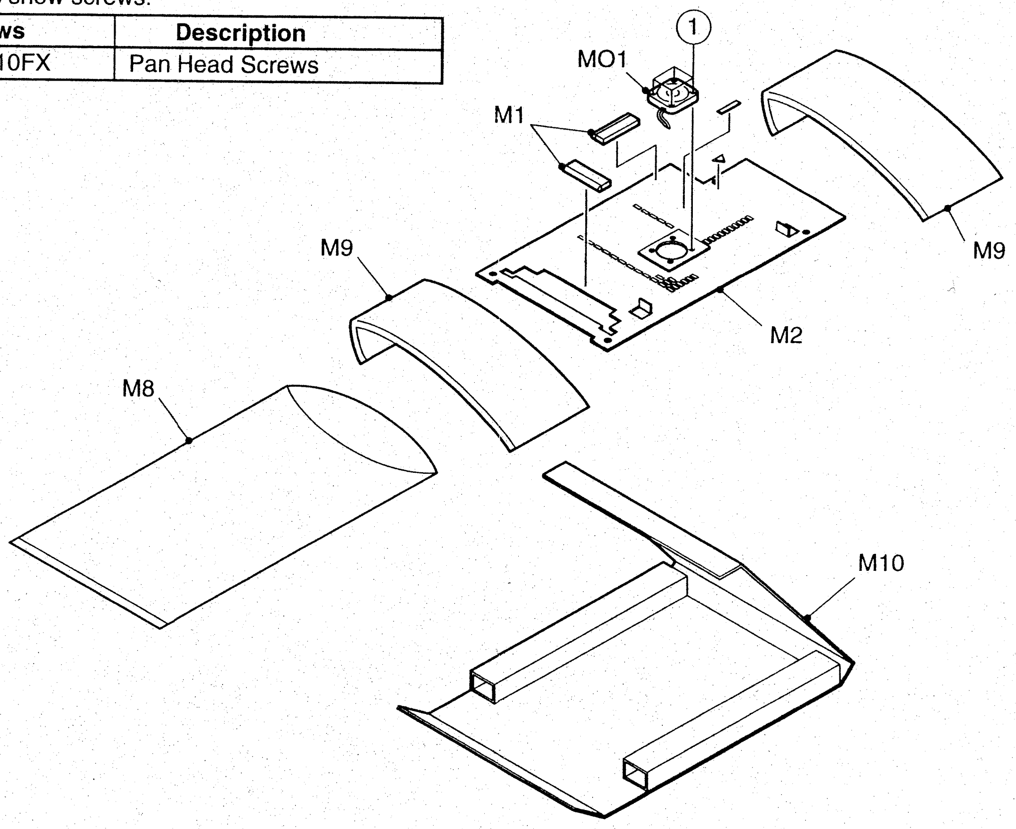

M8
①
②
M1
②
M9
M5
M4
M10
M3
M2
Serial No. Label

ED VIEW

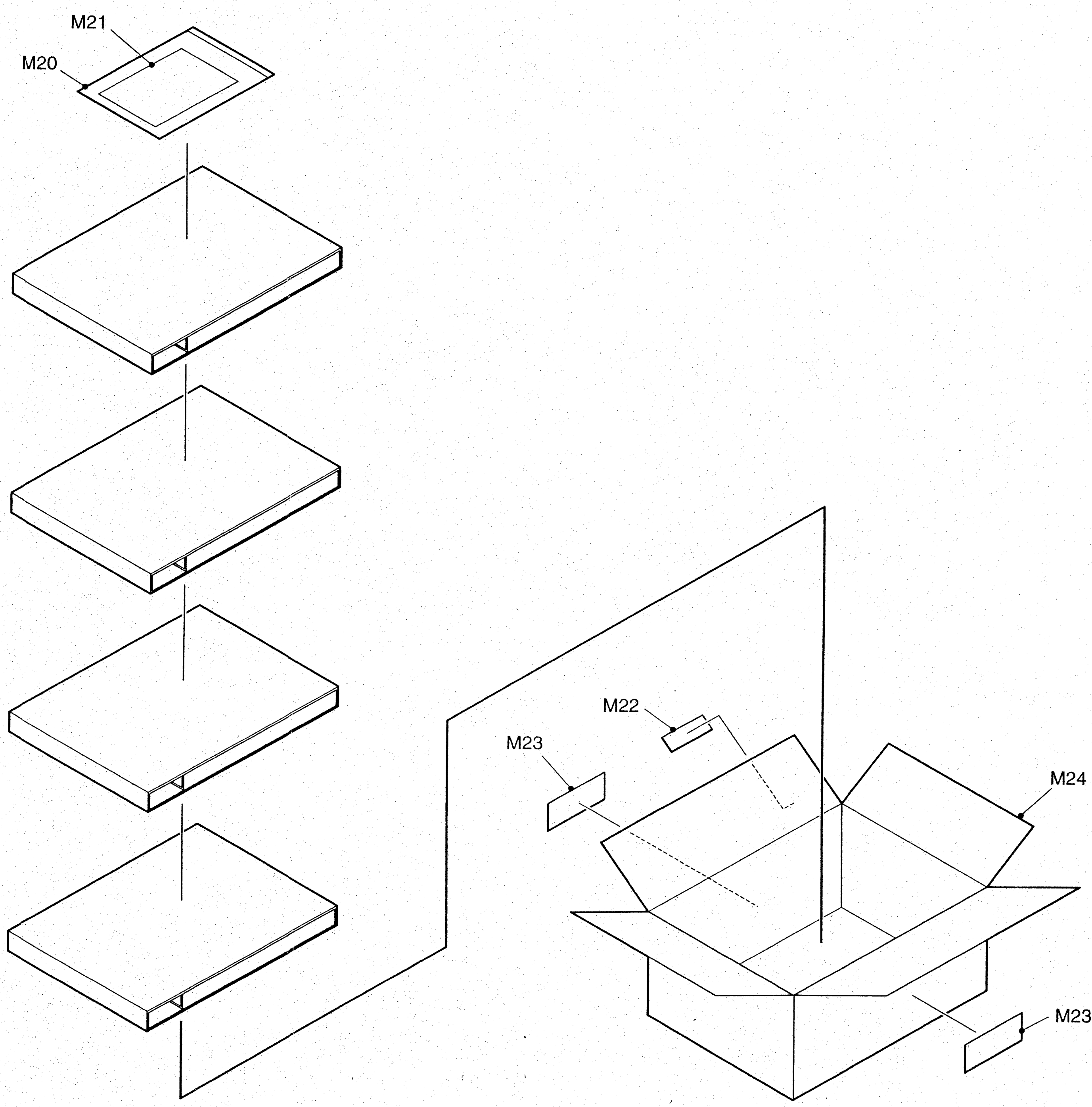
EXPLODED VIEW OF PROTECTION BOARD

○ Numbers show screws.

No.	Screws	Description
①	XSN4+10FX	Pan Head Screws


①
MO1
M1
M9
M9
M2
M8
M10

PACKAGING


M21
M20
M22
M23
M24
M23

REPLACEMENT PARTS LIST

Important Notice

1. Components identified by " ⚠ " mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
2. RTL : Retention Time Limited.

JPEG/SCSI BOARD (JPEG SECTION)

REF. NO.	PART NO.	DESCRIPTION
PCB1 (RTL)	YWJ1200EKZ6A	Printed Circuit Board
U1	YW16V8AV04A	IC
U2	YWMC74AC00M	IC
U3-6	MC74HC245AF	IC
U7	YWCY7C18515V	IC
U8	MC74HC125AF	IC
U9,10	MC74HC574AF	IC
U11	UPD485505G25	IC
U12,13	MC74HC574AF	IC
U14	YWPD65640115	IC
U15	TMS4C2972-26	IC
U16	UPD65806080	IC
U17	YWSC7S00F	IC
U18	YWSC7S08F	IC
U19-22	MC74HC245AF	IC
U23,24	YWMC74AC541M	IC
U25	MC74HC574AF	IC
U26,27	YCY7C19915VC	IC
U28	YWMC74AC245M	IC
U29,30	YWMC74AC574M	IC
U31,32	YCY7C19915VC	IC
U33	YWMD0205	IC
U34	YWMD36050X27	IC
U41	CY7C421-10JC	IC
U42	YWMC74AC574M	IC
U43	YWMC74ACT08M	IC
U44-47	YWMC74AC574M	IC
U48	CY7C421-10JC	IC
U49-52	YWMC74AC574M	IC
U53,54	UPD421816560	IC
U60-63	YWMC74AC245M	IC
U66-69	YWMC74AC574M	IC
U75	MB86604LPFVG	IC
U76	M51951AMLW	IC
U77	YWMC74AC32M	IC
U78,79	YWSC7SU04F	IC
U80	YWBH9595FPY	IC
U85-88	YWMC74AC574M	IC
U91	YWSC7S32FER	IC
U202	YWMC74AC00M	IC
U203-206	MC74HC245AF	IC
U207	YWCY7C18515V	IC
U212,213	MC74HC574AF	IC
U216	UPD65806080	IC
U219-222	MC74HC245AF	IC
U225	MC74HC574AF	IC
U226,227	YCY7C19915VC	IC
U228	YWMC74AC245M	IC
U229,230	YWMC74AC574M	IC
U231,232	YCY7C19915VC	IC
U233	YWMD0205	IC
U234	YWMD36050X27	IC
U241	CY7C421-10JC	IC
U242	YWMC74AC574M	IC
U243	YWMC74ACT08M	IC
U244-247	YWMC74AC574M	IC
U253,254	UPD421816560	IC
U260-263	YWMC74AC245M	IC
U266-269	YWMC74AC574M	IC
U275	MB86604LPFVG	IC
U276	M51951AMLW	IC
U278,279	YWSC7SU04F	IC
U280	YWBH9595FPY	IC
U291	YWSC7S32F	IC
R1-3	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R5	ERJ6GEYJ102	Carbon 1K ohms 1/10W
R6-10	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R13	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R14,15	ERJ6GEYJ560	Carbon 56 ohms 1/10W
R16,18	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R19-24	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R25-30	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R31-34	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R35,36	ERJ6GEYJ560	Carbon 56 ohms 1/10W
R38	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R39,41	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R43	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R46,47	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R49-52	ERJ6GEYJ562	Carbon 5.6K ohms 1/10W
R61	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R65-69	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R71-74	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R76	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R77	ERJ6GEYJ103	Carbon 10K ohms 1/10W
R100-105	ERJ6GEYJ560	Carbon 56 ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R106,130	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R131-133	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R141	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R150-154	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R161	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R162	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R163	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R164,166	ERJ6GEYJ103	Carbon	1K ohms 1/10W
R167	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R180-185	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R186-188	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R214,215	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R303-305	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R306,330	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R331-333	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R341	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R350	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R352-354	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R361	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R362	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R363	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R364,366	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R367	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R380,381	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R386-388	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R501-503	EXBV8V101J	Block Resistor	100 ohms 1/32W
R504-507	EXBV8V562J	Block Resistor	5.6K ohms 1/32W
R508-511	EXBV8V101J	Block Resistor	100 ohms 1/32W
R512-521	EXBV8V560J	Block Resistor	56 ohms 1/32W
R522-525	EXBV8V100J	Block Resistor	10 ohms 1/32W
R526-528	EXBV8V562J	Block Resistor	5.6K ohms 1/32W
R530-532	EXBV8V101J	Block Resistor	100 ohms 1/32W
R535,536	EXBV8V560J	Block Resistor	56 ohms 1/32W
R540	EXBV8V102JV	Block Resistor	1K ohms 1/32W
R541-546	EXBV8V560J	Block Resistor	56 ohms 1/32W
R547-548	EXBV8VR000	Block Resistor	0 ohm 1/32W
R549,550	EXBV8V560J	Block Resistor	56ohms 1/32W
R552,555	EXBV8V560J	Block Resistor	56 ohms 1/32W
R556	EXBV8V560J	Block Resistor	56 ohms 1/32W
R557	EXBV8V103J	Block Resistor	10K ohms 1/32W
R558	EXBV8V562J	Block Resistor	5.6K ohms 1/32W
R560-587	EXBV8V560J	Block Resistor	56 ohms 1/32W
R590-605	EXBV8V560J	Block Resistor	56 ohms 1/32W
R614-621	EXBV8V560J	Block Resistor	56 ohms 1/32W
R630-635	EXBV8V560J	Block Resistor	56 ohms 1/32W
R636,637	EXBV8V103J	Block Resistor	10K ohms 1/32W
R644-651	EXBV8V560J	Block Resistor	56 ohms 1/32W
R652-655	EXBV8V330J	Block Resistor	33 ohms 1/32W
R661-664	EXBV8VR000	Block Resistor	0 ohm 1/32W
R712-716	EXBV8V560J	Block Resistor	56 ohms 1/32W

REF. NO.	PART NO.	DESCRIPTION	
R717-721	EXBV8V560J	Block Resistor	56 ohms 1/32W
R722-725	EXBV8V100J	Block Resistor	10 ohms 1/32W
R735,736	EXBV8V560J	Block Resistor	56 ohms 1/32W
R740	EXBV8V102J	Block Resistor	1K ohms 1/32W
R741-746	EXBV8V560J	Block Resistor	56 ohms 1/32W
R747,748	EXBV8V101J	Block Resistor	100 ohms 1/32W
R749,750	EXBV8V560J	Block Resistor	56 ohms 1/32W
R752,755	EXBV8V560J	Block Resistor	56 ohms 1/32W
R756	EXBV8V560J	Block Resistor	56 ohms 1/32W
R757	EXBV8V103J	Block Resistor	10K ohms 1/32W
R758	EXBV8V562J	Block Resistor	5.6K ohms 1/32W
R760-787	EXBV8V560J	Block Resistor	56 ohms 1/32W
R790-805	EXBV8V560J	Block Resistor	56 ohms 1/32W
R814-821	EXBV8V560J	Block Resistor	56 ohms 1/32W
R830-835	EXBV8V560J	Block Resistor	56 ohms 1/32W
R836,837	EXBV8V103J	Block Resistor	10K ohms 1/32W
R841-844	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R853-870	ERJ6GEYJ5R6	Carbon	5.6 ohms 1/10W
R903-920	ERJ6GEYJ5R6	Carbon	5.6 ohms 1/10W
C1-4	ECEV0JG101GP	Electrolytic	100 μF 6.3V
C5-15	YF400330CHJT	Ceramic	33 pF 50V
C16	ECST1CD226ZR	Tantalum	22 μF 16V
C17-21	YWT316B104MT	Ceramic	0.1 μF
C22,23	YWSK41C106MB	Tantalum	10 μF 16V
C24,25	YWT316B104MT	Ceramic	0.1 μF
C26,27	YWSK41C106MB	Tantalum	10 μF 16V
C28	YWT316B104MT	Ceramic	0.1 μF
C29	YWSK41C106MB	Tantalum	10 μF 16V
C30,31	YWT316B104MT	Ceramic	0.1 μF
C35	ECST1CD226ZR	Tantalum	22 μF 16V
C36	YWSK41C106MB	Tantalum	10 μF 16V
C37-39	YWT316B104MT	Ceramic	0.1 μF
C40,45	ECST1CD226ZR	Tantalum	22 μF 16V
C46,47	YWT316B104MT	Ceramic	0.1 μF
C48	ECST1CD226ZR	Tantalum	22 μF 16V
C49-52	YWT316B104MT	Ceramic	0.1 μF
C55	YWT316B104MT	Ceramic	0.1 μF
C56,57	YWSK41C106MB	Tantalum	10 μF 16V
C58-60	YWT316B104MT	Ceramic	0.1 μF
C61	YWSK41C106MB	Tantalum	10 μF 16V
C62,63	YWT316B104MT	Ceramic	0.1 μF
C64	ECST1CD226ZR	Tantalum	22 μF 16V
C65,66	YWT316B104MT	Ceramic	0.1 μF
C67-69	ECST1CD226ZR	Tantalum	22 μF 16V
C70,71	YWT316B104MT	Ceramic	0.1 μF
C76	ECST1CD226ZR	Tantalum	22 μF 16V
C77,78	YWT316B104MT	Ceramic	0.1 μF
C79	YWSK41C106MB	Tantalum	10 μF 16V
C80-83	YWT316B104MT	Ceramic	0.1 μF
C84	ECST1CD226ZR	Tantalum	22 μF 16V

REF. NO.	PART NO.	DESCRIPTION	
C85-91	YWT316B104MT	Ceramic	0.1 μF
C92,93	YWSK41C106MB	Tantalum	10 μF 16V
C96-101	YWT316B104MT	Ceramic	0.1 μF
C102	TAJD336M016	Tantalum	33 μF 16V
C103	YWT316B104MT	Ceramic	0.1 μF
C104	TAJD336M016	Tantalum	33 μF 16V
C105	YWSK41C106MB	Tantalum	10 μF 16V
C106	YWT316B104MT	Ceramic	0.1 μF
C107	ECEV1AA330P	Electrolytic	33 μF 10V
C108	YWT316B104MT	Ceramic	0.1 μF
C109	TAJD336M016	Tantalum	33 μF 16V
C110	YWT316B104MT	Ceramic	0.1 μF
C115-118	YWT316B104MT	Ceramic	0.1 μF
C120-123	YWT316B104MT	Ceramic	0.1 μF
C217-221	YWT316B104MT	Ceramic	0.1 μF
C222	YWSK41C106MB	Tantalum	10 μF 16V
C230,231	YWT316B104MT	Ceramic	0.1 μF
C245	ECST1CD226ZR	Tantalum	22 μF 16V
C246,247	YWT316B104MT	Ceramic	0.1 μF
C248	ECST1CD226ZR	Tantalum	22 μF 16V
C249-252	YWT316B104MT	Ceramic	0.1 μF
C255	YWT316B104MT	Ceramic	0.1 μF
C256,257	YWSK41C106MB	Tantalum	10 μF 16V
C258-260	YWT316B104MT	Ceramic	0.1 μF
C261	YWSK41C106MB	Tantalum	10 μF 16V
C262,263	YWT316B104MT	Ceramic	0.1 μF
C264	ECST1CD226ZR	Tantalum	22 μF 16V
C265,266	YWT316B104MT	Ceramic	0.1 μF
C267-269	ECST1CD226ZR	Tantalum	22 μF 16V
C270,271	YWT316B104MT	Ceramic	0.1 μF
C276	ECST1CD226ZR	Tantalum	22 μF 16V
C277,278	YWT316B104MT	Ceramic	0.1 μF
C279	YWSK41C106MB	Tantalum	10 μF 16V
C280-283	YWT316B104MT	Ceramic	0.1 μF
C290,291	YWT316B104MT	Ceramic	0.1 μF
C292,293	YWSK41C106MB	Tantalum	10 μF 16V
C296-299	YWT316B104MT	Ceramic	0.1 μF
C301	YWT316B104MT	Ceramic	0.1 μF
C302	TAJD336M016R	Tantalum	33 μF 16V
C303	YWT316B104MT	Ceramic	0.1 μF
C304	TAJD336M016R	Tantalum	33 μF 16V
C305	YWSK41C106MB	Tantalum	10 μF 16V
C306	YWT316B104MT	Ceramic	0.1 μF
C307	ECEV1AA330P	Electrolytic	33 μF 10V
C308	YWT316B104MT	Ceramic	0.1 μF
C309	TAJD336M016R	Tantalum	33 μF 16V
C310	YWT316B104MT	Ceramic	0.1 μF
C315-318	YWT316B104MT	Ceramic	0.1 μF
L1,2	YWCD75100KC	Coil	
L21	YWNL32T100J	Coil	10 μH
L22	ELJPA1R0MF	Coil	1 μH
L25,26	YWNL32T100J	Coil	10 μH
L27	ELJPA1R0MF	Coil	1 μH
L28,30	YWNL32T100J	Coil	10 μH
L31,35	YWNL32T100J	Coil	10 μH
L40	ELJFA1R0MF	Coil	1 μH
L41	YWNL32T100J	Coil	10 μH
L42,222	ELJPA1R0MF	Coil	1 μH
L225,226	YWNL32T100J	Coil	10 μH
L227	ELJPA1R0MF	Coil	1 μH
L228,231	YWNL32T100J	Coil	10 μH
L235	YWNL32T100J	Coil	10 μH
L240	ELJFA1R0MF	Coil	1 μH
L241	YWNL32T100J	Coil	10 μH
L242	ELJPA1R0MF	Coil	1 μH
CN1	YW8817140L	140-pin Connector	
CN2	YW8817120L	120-pin Connector	
F1,2 ⚠	YWSSFC2AT4	Current Fuse	2A
X1,201	CSTCS40MX040	Ceramic Resonator	
TP1-17	YWRCS3216TPV	Test Point	
TP20,21	YWRCS3216TPV	Test Point	
TP201,205	YWRCS3216TPV	Test Point	
TP206-209	YWRCS3216TPV	Test Point	
M1	YWV4RA0121A3	Lever	
M2	YWV2HA1206A3	Shield Parts	
M3 ⚠	YWX7C1A002A	Main Label	
M4	YWV7SA2083A4	Blank Label L	
M5	YWV7SA2084A4	Blank Label S	
M8	YW6D1A002A	Cushion	
M9	YWSKY30X40	Polyethelene Bag	
M10	YW6D1A001A	Packaging	

JPEG/SCSI BOARD (SCSI SECTION)

REF. NO.	PART NO.	DESCRIPTION	
PCB1 (RTL)	YWJ1200EKZ7A	Printed Circuit Board	
U1	YW16V8AV04A	IC	
U2	YWMC74AC00M	IC	
U3,4	MC74HC245AF	IC	
U7	YWCY7C18515V	IC	
U8	MC74HC125AF	IC	
U16	UPD65806080	IC	
U23,24	YWMC74AC541M	IC	
U75	MB86604LPFVG	IC	
U76	M51951AMLW	IC	
U77	YWMC74AC32M	IC	
U78,79	YWSC7SU04F	IC	
U80	YWBH9595FPY	IC	
R1-3	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R4	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R8,11	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R12	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R14,15	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R17	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R20,21	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R22,23	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R24	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R25-30	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R31-34	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R35,36	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R38	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R39,41	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R43	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R46,47	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R55	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R106	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R115	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R130	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R141	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R160	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R162	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R163	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R164,166	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R167	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R186-188	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R501-503	EXBV8V101J	Block Resistor	100 ohms 1/32W
R508-511	EXBV8V101J	Block Resistor	100 ohms 1/32W
R512-515	EXBV8V560J	Block Resistor	56 ohms 1/32W
R520,521	EXBV8V560J	Block Resistor	56 ohms 1/32W
R630-635	EXBV8V560J	Block Resistor	56 ohms 1/32W
R636,637	EXBV8V103J	Block Resistor	10K ohms 1/32W
R640-643	EXBV8VR000	Block Resistor	0 ohm 1/32W
R652-655	EXBV8V330JV	Block Resistor	33 ohms 1/32W
R853-870	ERJ6GEYJ5R6	Carbon	5.6 ohms 1/10W
C1-4	ECEV0JG101GP	Electrolytic	100 µF 6.3V
C5-15	YF400330CHJT	Ceramic	33 pF 50V
C16	ECST1CD226ZR	Tantalum	22 µF 16V
C17-19	YWT316B104MT	Ceramic	0.1 µF
C22,23	YWSK41C106MB	Tantalum	10 µF 16V
C24,25	YWT316B104MT	Ceramic	0.1 µF
C45	ECST1CD226ZR	Tantalum	22 µF 16V
C46,47	YWT316B104MT	Ceramic	0.1 µF
C48	ECST1CD226ZR	Tantalum	22 µF 16V
C100,101	YWT316B104MT	Ceramic	0.1 µF
C102	TAJD336M016	Tantalum	33 µF 16V
C103	YWT316B104MT	Ceramic	0.1 µF
C104	TAJD336M016	Tantalum	33 µF 16V
C105	YWSK41C106MB	Tantalum	10 µF 16V
C106	YWT316B104MT	Ceramic	0.1 µF
C107	ECEV1AA330P	Electrolytic	33 µF 10V
C108	YWT316B104MT	Ceramic	0.1 µF
C109	TAJD336M016	Tantalum	33 µF 16V
C110	YWT316B104MT	Ceramic	0.1 µF
X1	CSTCS40MX040	Ceramic Resonator	
L1,2	YWCD75100KC	Coil	
L22,40	ELJFA1R0KF	Coil	1 µH
L41	YWNL32T100J	Coil	10 µH
L42	ELJPA1R0MF	Coil	1 µH
CN1	YW8817140L	140-pin Connector	
CN2	YW8817120L	120-pin Connector	
F1,2 ⚠	YWSSFC1R2AT4	Current Fuse	2A
TP1-4	YWRCS3216TPV	Test Point	
TP10-17	YWRCS3216TPV	Test Point	
TP20,21	YWRCS3216TPV	Test Point	
M1	YWV4RA0121A3	Lever	
M2	YWV2HA1206A3	Shield Parts	
M3 ⚠	YW7C1A015A	Main Label	
M4	YWV7SA2083A4	Blank Label L	
M5	YWV7SA2084A4	Blank Label S	
M8	YW6D1A002A	Cushion	
M9	YWSKY30X40	Polyethelene Bag	
M10	YW6D1A001A	Packaging	

AUDIO BOARD

REF. NO.	PART NO.	DESCRIPTION
PCB1 (RTL)	YWJ1200EKZ1A	Printed Circuit Board Ass'y
U5	YWCY7C18515V	IC
U6	MC74HC245AF	IC
U7	YWAK5339VS	IC
U15	NJM2068MD	IC
U16	MC74HC138AF	IC
U17,18	YWNJU201AM	IC
U19-22	NJM2068MD	IC
U23	YWMC74AC00M	IC
U26	YWBH9595FPY	IC
U27	YW16V8AV04A	IC
U28	YWMC74HC32AF	IC
U30,31	NJM2068MD	IC
U32-35	YWNJM4556AM	IC
U36	NJM2068MD	IC
U37	YWM51953BFP	IC
U38,39	NJM2068MD	IC
U40	MC74HC273AF	IC
U42	YWAK4328VS	IC
U43	YWSC7S00F	IC
U50	MC74HC125AF	IC
U51,52	YWSC7SU04F	IC
U53	MB86604LPFVG	IC
U54	YWMC74HC74AF	IC
U56	YWBA6800AF	IC
U58	YWMC74HC74AF	IC
U59	YWSC7S00F	IC
U61,62	MC74HC574AF	IC
U63	YWMC74HC74AF	IC
U66	YWMC74HC165F	LSI
U67	TMS57070FFT	IC
U68	MB8118165B	IC
U71	UPD65806080	IC
U72	MB8118165B	IC
U73,74	YWSC7SU04F	IC
U75-77	MC74HC245AF	IC
U101	MC74HC541AF	IC
U102	YW18V1015001	IC
U103	YW18V1015002	IC
U104	YWMC74HC74AF	IC
U105	YWBH3532FS	IC
U106,107	YWSC7SU04F	IC
U113	NJM2068MD	IC
U121-126	MC74HC574AF	IC
U127	YWSC7S08F	IC
U128	YWSC7SU04F	IC
U129	YWMC74HCU04F	IC
U130	YWSC7S08F	IC
U140	A101B2LCC	IC
Q1	MSB766A-RS	Transistor
Q2	2SD874A-RS	Transistor
Q3	MSB709-QRS	Transistor
Q5,7	2SD1030RST	Transistor
Q9,11	2SD1030RST	Transistor
Q13,15	2SD1030RST	Transistor
Q17,19	2SD1030RST	Transistor
Q21,23	2SD1030RST	Transistor
Q25	2SD874A-RS	Transistor
Q26	MSB766A-RS	Transistor
Q27	MSB709-QRS	Transistor
Q28	MSD601-QRS	Transistor
Q29	MSB709-QRS	Transistor
Q30	2SK198-PQR	Transistor
D1,2	MA3056HTW	Diode
D3,4	YWDAN212K	Diode
D6,7	YWHVU359TRF	Diode
R1	ERJ6GEYJ510	Carbon 51 ohms 1/10W
R2	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R3	ERJ6GEYJ473	Carbon 47K ohms 1/10W
R4,5	ERJ6GEYJ221	Carbon 220 ohms 1/10W
R6	ERJ6GEY0R00	Carbon 0 ohm 1/10W
R7	ERJ6GEYJ221	Carbon 220 ohms 1/10W
R8	ERJ6GEYJ510	Carbon 51 ohms 1/10W
R19	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R24,25	ERJ6GEYJ510	Carbon 51 ohms 1/10W
R28	ERJ6GEYJ101	Carbon 100 ohms 1/10W
R33	R1220P473D	Metal 47K ohms 1/10W
R34	YWR1220P103D	Metal 10K ohms 1/10W
R35	YWR1220P203D	Metal 20K ohms 1/10W
R36	YWR1220P104D	Metal 100K ohms 1/10W
R37	YWR1220P912D	Metal 9.1K ohms 1/10W
R38	YWR1220P103D	Metal 10K ohms 1/10W
R39	YWR1220P203D	Metal 20K ohms 1/10W
R40	YWR1220P104D	Metal 100K ohms 1/10W
R41	YWR1220P473D	Metal 47K ohms 1/10W
R42	YWR1220P912D	Metal 9.1K ohms 1/10W
R43	YWR1220P473D	Metal 47K ohms 1/10W
R44	YWR1220P103D	Metal 10K ohms 1/10W
R45	YWR1220P203D	Metal 20K ohms 1/10W
R46	YWR1220P104D	Metal 100K ohms 1/10W
R47	YWR1220P912D	Metal 9.1K ohms 1/10W
R48	YWR1220P103D	Metal 10K ohms 1/10W
R49	YWR1220P203D	Metal 20K ohms 1/10W
R50	YWR1220P104D	Metal 100K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R51	YWR1220P473D	Metal	47K ohms 1/10W
R52	YWR1220P912D	Metal	9.1K ohms 1/10W
R53	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R54	YWR1220P472D	Metal	4.7K ohms 1/10W
R55	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R56	YWR1220P332D	Metal	3.3K ohms 1/10W
R57	YWR1220P473D	Metal	47K ohms 1/10W
R58-61	YWR1220P104D	Metal	100K ohms 1/10W
R62	YWR1220P473D	Metal	47K ohms 1/10W
R63	R1220P133D	Metal	13K ohms 1/10W
R64	YWR1220P153D	Metal	15K ohms 1/10W
R65	YWR1220P562D	Metal	5.6K ohms 1/10W
R66	YWR1220P473D	Metal	47K ohms 1/10W
R67	YWR1220P104D	Metal	100K ohms 1/10W
R68	YWR1220P473D	Metal	47K ohms 1/10W
R69	YWR1220P104D	Metal	100K ohms 1/10W
R70	YWR1220P133D	Metal	13K ohms 1/10W
R71	YWR1220P153D	Metal	15K ohms 1/10W
R72	YWR1220P562D	Metal	5.6K ohms 1/10W
R73	R1220P133D	Metal	13K ohms 1/10W
R74	YWR1220P153D	Metal	15K ohms 1/10W
R75	YWR1220P562D	Metal	5.6K ohms 1/10W
R76	YWR1220P473D	Metal	47K ohms 1/10W
R77	YWR1220P104D	Metal	100K ohms 1/10W
R78	YWR1220P473D	Metal	47K ohms 1/10W
R79	YWR1220P104D	Metal	100K ohms 1/10W
R80	R1220P133D	Metal	13K ohms 1/10W
R81	YWR1220P153D	Metal	15K ohms 1/10W
R82	YWR1220P562D	Metal	5.6K ohms 1/10W
R83	YWR1220P473D	Metal	47K ohms 1/10W
R84	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R85	YWR1220P332D	Metal	3.3K ohms 1/10W
R86	ERJ6GEYJ682	Carbon	6.8K ohms 1/10W
R87	YWR1220P472D	Metal	4.7K ohms 1/10W
R88	YWR1220P473D	Metal	47K ohms 1/10W
R89-92	YWR1220P104D	Metal	100K ohms 1/10W
R93	YWR1220P473D	Metal	47K ohms 1/10W
R94	R1220P133D	Metal	13K ohms 1/10W
R95	YWR1220P153D	Metal	15K ohms 1/10W
R96	YWR1220P562D	Metal	5.6K ohms 1/10W
R97	YWR1220P473D	Metal	47K ohms 1/10W
R98	YWR1220P104D	Metal	100K ohms 1/10W
R99	YWR1220P473D	Metal	47K ohms 1/10W
R100	YWR1220P104D	Metal	100K ohms 1/10W
R101	R1220P133D	Metal	13K ohms 1/10W
R102	YWR1220P153D	Metal	15K ohms 1/10W
R103	YWR1220P562D	Metal	5.6K ohms 1/10W
R104	R1220P133D	Metal	13K ohms 1/10W
R105	YWR1220P153D	Metal	15K ohms 1/10W
R106	YWR1220P562D	Metal	5.6K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R107	YWR1220P473D	Metal	47K ohms 1/10W
R108	YWR1220P104D	Metal	100K ohms 1/10W
R109	YWR1220P473D	Metal	47K ohms 1/10W
R110	YWR1220P104D	Metal	100K ohms 1/10W
R111	YWR1220P473D	Metal	47K ohms 1/10W
R112	R1220P133D	Metal	13K ohms 1/10W
R113	YWR1220P153D	Metal	15K ohms 1/10W
R114	YWR1220P562D	Metal	5.6K ohms 1/10W
R115,116	YWR1220P473D	Metal	47K ohms 1/10W
R117	YWR1220P561D	Metal	560 ohms 1/10W
R118	YWR1220P122D	Metal	1.2K ohms 1/10W
R119	YWR1220P561D	Metal	560 ohms 1/10W
R120	YWR1220P122D	Metal	1.2K ohms 1/10W
R121,122	YWR1220P473D	Metal	47K ohms 1/10W
R123	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R124	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R125	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R127,139	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R140	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R141-144	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R145	ERJ6GEYJ272	Carbon	2.7K ohms 1/10W
R146-150	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R155	YWR1220P103D	Metal	10K ohms 1/10W
R156	YWR1220P183D	Metal	18K ohms 1/10W
R157,162	YWR1220P103D	Metal	10K ohms 1/10W
R163	YWR1220P183D	Metal	18K ohms 1/10W
R164	YWR1220P103D	Metal	10K ohms 1/10W
R165	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R166	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R169	YWR1220P183D	Metal	18K ohms 1/10W
R170	YWR1220P112D	Metal	1.1K ohms 1/10W
R171,172	YWR1220P103D	Metal	10K ohms 1/10W
R173	YWR1220P102D	Metal	1K ohms 1/10W
R174	YWR1220P203D	Metal	20K ohms 1/10W
R175	YWR1220P470D	Metal	47 ohms 1/10W
R176	YWR1220P103D	Metal	10K ohms 1/10W
R177	YWR1220P103D	Metal	10K ohms 1/10W
R178	YWR1220P203D	Metal	20K ohms 1/10W
R179	YWR1220P102D	Metal	1K ohms 1/10W
R180	YWR1220P203D	Metal	20K ohms 1/10W
R181	YWR1220P470D	Metal	47 ohms 1/10W
R182,183	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R184,187	ERJ6GEYJ203	Carbon	20K ohms 1/10W
R188	YWR1220P183D	Metal	18K ohms 1/10W
R189	YWR1220P112D	Metal	1.1K ohms 1/10W
R190,191	YWR1220P103D	Metal	10K ohms 1/10W
R192	YWR1220P102D	Metal	1K ohms 1/10W
R193	YWR1220P203D	Metal	20K ohms 1/10W
R194	YWR1220P470D	Metal	47 ohms 1/10W
R195,196	YWR1220P103D	Metal	10K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R197	YWR1220P203D	Metal	20K ohms 1/10W
R198	YWR1220P102D	Metal	1K ohms 1/10W
R199	YWR1220P203D	Metal	20K ohms 1/10W
R200	YWR1220P470D	Metal	47 ohms 1/10W
R201,202	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R203,206	YWR1220P203D	Metal	20K ohms 1/10W
R207	YWR1220P183D	Metal	18K ohms 1/10W
R208	YWR1220P112D	Metal	1.1K ohms 1/10W
R209,210	YWR1220P103D	Metal	10K ohms 1/10W
R211	YWR1220P102D	Metal	1K ohms 1/10W
R212	YWR1220P203D	Metal	20K ohms 1/10W
R213	YWR1220P470D	Metal	47 ohms 1/10W
R214,215	YWR1220P103D	Metal	10K ohms 1/10W
R216	YWR1220P203D	Metal	20K ohms 1/10W
R217	YWR1220P102D	Metal	1K ohms 1/10W
R218	YWR1220P203D	Metal	20K ohms 1/10W
R219	YWR1220P470D	Metal	47 ohms 1/10W
R220,221	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R222,225	ERJ6GEYJ203	Carbon	20K ohms 1/10W
R226	YWR1220P183D	Metal	18K ohms 1/10W
R227	YWR1220P112D	Metal	1.1K ohms 1/10W
R228,229	YWR1220P103D	Metal	10K ohms 1/10W
R230	YWR1220P102D	Metal	1K ohms 1/10W
R231	YWR1220P203D	Metal	20K ohms 1/10W
R232	YWR1220P470D	Metal	47 ohms 1/10W
R233,234	YWR1220P103D	Metal	10K ohms 1/10W
R235	YWR1220P203D	Metal	20K ohms 1/10W
R236	YWR1220P102D	Metal	1K ohms 1/10W
R237	YWR1220P203D	Metal	20K ohms 1/10W
R238	YWR1220P470D	Metal	47 ohms 1/10W
R239,240	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R241,244	YWR1220P203D	Metal	20K ohms 1/10W
R246,248	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R249,250	YWR1220P153D	Metal	15K ohms 1/10W
R251	YWR1220Q750D	Metal	75 ohms 1/10W
R252,253	YWR1220P153D	Metal	15K ohms 1/10W
R254	YWR1220Q750D	Metal	75 ohms 1/10W
R255,256	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R259,260	YWR1220P203D	Metal	20K ohms 1/10W
R261,262	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R264,265	ERJ6GEYJ222	Carbon	2.2K ohms 1/10W
R267,268	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R281	YWR1220P473D	Metal	47K ohms 1/10W
R282	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R284	YWR1220P473D	Metal	47K ohms 1/10W
R286	YWR1220P822D	Metal	8.2K ohms 1/10W
R287	YWR1220P752D	Metal	7.5K ohms 1/10W
R292	YWR1220P822D	Metal	8.2K ohms 1/10W
R293	YWR1220P752D	Metal	7.5K ohms 1/10W
R298	ERJ6GEYJ104	Carbon	100K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R299,300	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R302	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R303	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R304	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R305-307	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R310,311	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R400-402	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R403	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R404,406	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R407	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R408	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R409,410	ERJ6GEYJ472	Carbon	4.7K ohms 1/10W
R411	ERJ6GEYJ473	Carbon	47K ohms 1/10W
R417	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R418-420	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R421-423	ERJ6GEYJ221	Carbon	220 ohms 1/10W
R424	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R425-428	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R431-435	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R436-439	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R461	ERJ6GEYJ104	Carbon	100K ohms 1/10W
R462	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R463	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R464,465	ERJ6GEYJ563	Carbon	56K ohms 1/10W
R466	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R467	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R468-470	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R471	ERJ6GEYJ560	Carbon	56 ohms 1/10W
R472,473	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R475	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R501-503	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R504-508	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R509,510	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R512	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R514-516	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R518	ERJ6GEYJ105	Carbon	1M ohms 1/10W
R519	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R520	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R521	ERJ6GEYJ750	Carbon	75 ohms 1/10W
R522	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R523	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R524	ERJ6GEYJ750	Carbon	75 ohms 1/10W
R526,528	YWR1220P203D	Metal	20K ohms 1/10W
R609-612	EXBV8V101J	Block Resistor	100 ohms 1/32W
R629-643	EXBV8V101J	Block Resistor	100 ohms 1/32W
R644,645	EXBV8V103J	Block Resistor	10K ohms 1/32W
R646-649	EXBV8V104J	Block Resistor	100K ohms 1/32W
R650-653	EXBV8V560J	Block Resistor	56 ohms 1/32W
R654-657	EXBV8V101J	Block Resistor	100 ohms 1/32W
R658-669	EXBV8V560J	Block Resistor	56 ohms 1/32W

REF. NO.	PART NO.	DESCRIPTION	
R701	YWR1220P203D	Metal	20K ohms 1/10W
R702	YWR1220P103D	Metal	10K ohms 1/10W
R703	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R705	YWR1220P203D	Metal	20K ohms 1/10W
R706	YWR1220P103D	Metal	10K ohms 1/10W
R707	ERJ6GEYJ510	Carbon	51 ohms 1/10W
R708,709	R1220P473D	Metal	47K ohms 1/10W
R710,711	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R712	ERJ6GEYJ3R3	Carbon	3.3 ohms 1/10W
R713	ERDS2TJ101	Carbon	100 ohms 1/4W
R714	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R729	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R741,742	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R744,745	ERJ6GEYJ101	Carbon	100 ohms 1/10W
R746,748	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R750,751	ERJ6GEY0R00	Carbon	0 ohm 1/10W
R245,247	EVM1DSW30B53	Variable Resistor	5K ohms
R263,266	EVM1DSW30B14	Variable Resistor	10K ohms
R525,527	EVM1DSW30B14	Variable Resistor	10K ohms
R671,672	EVM1DSW30B14	Variable Resistor	10K ohms
C9	YWSK41C106MB	Tantalum	10 μF 16V
C10	YWT316B104MT	Ceramic	0.1 μF
C11	ECST1CB685ZR	Tantalum	6.8 μF 16V
C12	YWT316B104MT	Ceramic	0.1 μF
C13	YF400103XKT	Ceramic	0.01 μF
C14,16	YWT316B104MT	Ceramic	0.1 μF
C17	YF400103XKT	Ceramic	0.01 μF
C18	YWT316B104MT	Ceramic	0.1 μF
C19	ECEV1EA221P	Electrolytic	220 μF 25V
C20	YWT316B104MT	Ceramic	0.1 μF
C21	ECEV1EA221P	Electrolytic	220 μF 25V
C30	ECST1AX106ZR	Tantalum	10 μF 10V
C31	YWT316B104MT	Ceramic	0.1 μF
C32,33	ECST1CD336ZR	Tantalum	33 μF 16V
C34	YWT316B224MT	Ceramic	0.22 μF
C35	YWT316B104MT	Ceramic	0.1 μF
C36	ECEV1EG470P	Electrolytic	47 μF 25V
C37	YWT316B104MT	Ceramic	0.1 μF
C38	ECEV1AAN330P	Electrolytic	33 μF 10V
C39	YF400150CHJT	Ceramic	15 pF
C40	ECEV1EG470P	Electrolytic	47 μF 25V
C41	YWT316B104MT	Ceramic	0.1 μF
C42	YF400150CHJT	Ceramic	15 pF
C43	ECEV1AAN330P	Electrolytic	33 μF 10V
C44	ECEV1EG470P	Electrolytic	47 μF 25V
C45	YWT316B104MT	Ceramic	0.1 μF
C46	ECEV1AAN330P	Electrolytic	33 μF 10V
C47	YF400150CHJT	Ceramic	15 pF
C48	ECEV1EG470P	Electrolytic	47 μF 25V
C49	YWT316B104MT	Ceramic	0.1 μF

REF. NO.	PART NO.	DESCRIPTION	
C50	YF400150CHJT	Ceramic	15 pF
C51	ECEV1AAN330P	Electrolytic	33 μF 10V
C52	ECEV1EG470P	Electrolytic	47 μF 25V
C53	YWT316B104MT	Ceramic	0.1 μF
C54	YF400150CHJT	Ceramic	15 pF
C55	ECEV1AAN330P	Electrolytic	33 μF 10V
C56,57	YF400103XKT	Ceramic	0.01 μF
C58	ECEV1AAN330P	Electrolytic	33 μF 10V
C59	YF400150CHJT	Ceramic	15 pF
C60	ECEV1AAN330P	Electrolytic	33 μF 10V
C61	YF400150CHJT	Ceramic	15 pF
C62	ECEV1AAN330P	Electrolytic	33 μF 10V
C63,64	YF400103XKT	Ceramic	0.01 μF
C65	ECEV1AAN330P	Electrolytic	33 μF 10V
C66	YF400150CHJT	Ceramic	15 pF
C67	ECEV1AAN330P	Electrolytic	33 μF 10V
C68	YWT316B104MT	Ceramic	0.1 μF
C69	ECEV1EG470P	Electrolytic	47 μF 25V
C70	YWT316B104MT	Ceramic	0.1 μF
C71	ECEV1EG470P	Electrolytic	47 μF 25V
C72	YF400103XKT	Ceramic	0.01 μF
C73	YGM2C331J1HT	Ceramic	330 pF 50V
C74	YF400103XKT	Ceramic	0.01 μF
C75	YGM2C331J1HT	Ceramic	330 pF 50V
C76	YWT316B104MT	Ceramic	0.1 μF
C77	ECEV1EG470P	Electrolytic	47 μF 25V
C78	YWT316B104MT	Ceramic	0.1 μF
C79	ECEV1EG470P	Electrolytic	47 μF 25V
C80	YWT316B104MT	Ceramic	0.1 μF
C81	YF400150CHJT	Ceramic	15 pF
C82	ECEV1AAN330P	Electrolytic	33 μF 10V
C83,84	YF400103XKT	Ceramic	0.1 μF
C85	ECEV1AAN330P	Electrolytic	33 μF 10V
C86	YF400150CHJT	Ceramic	15 pF
C87	ECEV1AAN330P	Electrolytic	33 μF 10V
C88	YF400150CHJT	Ceramic	15 pF
C89	ECEV1AAN330P	Electrolytic	33 μF 10V
C90,91	YF400103XKT	Ceramic	0.01 μF
C92	ECEV1AAN330P	Electrolytic	33 μF 10V
C93	YF400150CHJT	Ceramic	15 pF
C94	ECEV1AAN330P	Electrolytic	33 μF 10V
C95	YWT316B104MT	Ceramic	0.1 μF
C96	ECEV1EG470P	Electrolytic	47 μF 25V
C97,98	YWT316B104MT	Ceramic	0.1 μF
C99,100	ECEV1EA101P	Electrolytic	100 μF 25V
C101,102	ECEV1EA221P	Electrolytic	220 μF 25V
C103-108	YWT316B104MT	Ceramic	0.1 μF
C109,110	ECEV1EG470P	Electrolytic	47 μF 25V
C111,112	YWT316B104MT	Ceramic	0.1 μF
C113,114	ECEV1EA221P	Electrolytic	220 μF 25V

REF. NO.	PART NO.	DESCRIPTION	
C115	YWT316B104MT	Ceramic	0.1 μF
C117	YGM2C330J1HT	Ceramic	33 pF 50V
C120	ECST1CD226ZR	Tantalum	22 μF 16V
C121	ECST1CD336ZR	Tantalum	33 μF 16V
C122	YWT316B104MT	Ceramic	0.1 μF
C123	TAJD336M010	Tantalum	33 μF 10V
C126,127	ECEV1CA101P	Electrolytic	100 μF 16V
C128	YWSK41C106MB	Tantalum	10 μF 16V
C133	YGM2B102K1HT	Ceramic	1000 pF 50V
C134	YGM2C151J1HT	Ceramic	150 pF 50V
C135	YWT316B104MT	Ceramic	0.1 μF
C136,137	ECEV1EG470P	Electrolytic	47 μF 25V
C138	YWT316B104MT	Ceramic	0.1 μF
C142	YGM2B102K1HT	Ceramic	1000 pF 50V
C143	YGM2C151J1HT	Ceramic	150 pF 50V
C144	ECEV1EG470P	Electrolytic	47 μF 25V
C145	YWT316B104MT	Ceramic	0.1 μF
C146	ECEV1EG470P	Electrolytic	47 μF 25V
C147	YWT316B104MT	Ceramic	0.1 μF
C148	ECEV1EG330GP	Electrolytic	33 μF 25V
C150	ECEV1EA101P	Electrolytic	100 μF 25V
C152	ECEV1AAN330P	Electrolytic	33 μF 10V
C153	YGM2C220J1HT	Ceramic	22 pF 50V
C154	YWT316B104MT	Ceramic	0.1 μF
C155	ECEV1EG470P	Electrolytic	47 μF 25V
C156	YWT316B104MT	Ceramic	0.1 μF
C157	ECEV1EG470P	Electrolytic	47 μF 25V
C158	YGM2C220J1HT	Ceramic	22 pF 50V
C159	YWT316B104MT	Ceramic	0.1 μF
C160	ECEV1AA221P	Electrolytic	220 μF 10V
C161	YWT316B104MT	Ceramic	0.1 μF
C162	ECEV1AA221P	Electrolytic	220 μF 10V
C163	YGM2C220J1HT	Ceramic	22 pF 50V
C164	YWT316B104MT	Ceramic	0.1 μF
C165	ECEV1EG470P	Electrolytic	47 μF 25V
C166	ECEV1AAN330P	Electrolytic	33 μF 10V
C167	YWT316B104MT	Ceramic	0.1 μF
C168	ECEV1EG470P	Electrolytic	47 μF 25V
C169	YGM2C220J1HT	Ceramic	22 pF 50V
C170	YWT316B104MT	Ceramic	0.1 μF
C171	ECEV1AA221P	Electrolytic	220 μF 10V
C172	YWT316B104MT	Ceramic	0.1 μF
C173	ECEV1AA221P	Electrolytic	220 μF 10V
C174	YGM2C220J1HT	Ceramic	22 pF 50V
C175	YWT316B104MT	Ceramic	0.1 μF
C176	ECEV1EG470P	Electrolytic	47 μF 25V
C177	ECEV1AAN330P	Electrolytic	33 μF 10V
C178	YWT316B104MT	Ceramic	0.1 μF
C179	ECEV1EG470P	Electrolytic	47 μF 25V
C180	YGM2C220J1HT	Ceramic	22 pF 50V

REF. NO.	PART NO.	DESCRIPTION	
C181	YWT316B104MT	Ceramic	0.1 μF
C182	ECEV1AA221P	Electrolytic	220 μF 10V
C183	YWT316B104MT	Ceramic	0.1 μF
C184	ECEV1AA221P	Electrolytic	220 μF 10V
C185	YGM2C220J1HT	Ceramic	22 pF 50V
C186	YWT316B104MT	Ceramic	0.1 μF
C187	ECEV1EG470P	Electrolytic	47 μF 25V
C188	ECEV1AAN330P	Electrolytic	33 μF 10V
C189	YWT316B104MT	Ceramic	0.1 μF
C190	ECEV1EG470P	Electrolytic	47 μF 25V
C191	YGM2C220J1HT	Ceramic	22 pF 50V
C192	YWT316B104MT	Ceramic	0.1 μF
C193	ECEV1AA221P	Electrolytic	220 μF 10V
C194	YWT316B104MT	Ceramic	0.1 μF
C195	ECEV1AA221P	Electrolytic	220 μF 10V
C196	YF400330CHJT	Ceramic	33 pF 50V
C197,198	YF400101CHJT	Ceramic	100 pF 50V
C199	YF400330CHJT	Ceramic	33 pF 50V
C200	YWT316B104MT	Ceramic	0.1 μF
C201	ECEV1EG470P	Electrolytic	47 μF 25V
C202	YWT316B104MT	Ceramic	0.1 μF
C203	ECEV1EG470P	Electrolytic	47 μF 25V
C204,205	ECEV1AAN100R	Electrolytic	10 μF 10V
C206-215	YGM2C101J1HT	Ceramic	100 pF 50V
C216	YWT316B104MT	Ceramic	0.1 μF
C217	ECEV1EA101P	Electrolytic	100 μF 25V
C218	TAJA105M016	Tantalum	1 μF 16V
C219	ECEV1EA101P	Electrolytic	100 μF 25V
C220	YWT316B104MT	Ceramic	0.1 μF
C221	YGM2C151J1HT	Ceramic	150 pF 50V
C223,224	YF400103XKT	Ceramic	0.01 μF
C225	ECST1CD336ZR	Tantalum	33 μF 16V
C231-234	ECST1CD336ZR	Tantalum	33 μF 16V
C235	YF400151CHJT	Ceramic	150 pF 50V
C237,238	ECEV1EG330GP	Electrolytic	33 μF 25V
C239	ECEV1EG470P	Electrolytic	47 μF 25V
C240,241	YWT316B104MT	Ceramic	0.1 μF
C242,243	ECEV1EG470P	Electrolytic	47 μF 25V
C244,245	YWT316B104MT	Ceramic	0.1 μF
C246	ECEV1EG470P	Electrolytic	47 μF 25V
C250	YWT316B104MT	Ceramic	0.1 μF
C251,252	ECEV1EG470P	Electrolytic	47 μF 25V
C253	YWT316B104MT	Ceramic	0.1 μF
C254	ECEV1EG470P	Electrolytic	47 μF 25V
C255,256	YWT316B104MT	Ceramic	0.1 μF
C257	ECEV1EG470P	Electrolytic	47 μF 25V
C258-265	YGM2C330J1HT	Ceramic	33 pF 50V
C266,267	YWT316B104MT	Ceramic	0.1 μF
C268	YWSK41C106MB	Tantalum	10 μF 16V
C269	YGM2C330J1HT	Ceramic	33 pF 50V

REF. NO.	PART NO.	DESCRIPTION	
C270,271	ECEV1AAN330P	Electrolytic	33 μF 10V
C274,275	ECEV1HA010NR	Electrolytic	1 μF 50V
C276	YWT316B104MT	Ceramic	0.1 μF
C277	YGM2C330J1HT	Ceramic	33 pF
C300,301	YWT316B104MT	Ceramic	0.1 μF
C302	YWSK41C106MB	Tantalum	10 μF 16V
C303	YWT316B104MT	Ceramic	0.1 μF
C305	ECST1CD226ZR	Tantalum	22 μF 16V
C306,307	YWT316B104MT	Ceramic	0.1 μF
C308,309	TAJA105M016	Tantalum	1 μF 16V
C310,311	TAJC226M010	Tantalum	22 μF 10V
C312	YWSK41C106MB	Tantalum	10 μF 16V
C313	YF400103XKT	Ceramic	0.01 μF
C314	YWSK41C106MB	Tantalum	10 μF 16V
C315,316	YWT316B104MT	Ceramic	0.1 μF
C318-320	YWSK41C106MB	Tantalum	10 μF 16V
C323	YWT316B104MT	Ceramic	0.1 μF
C324	ECST1CD226ZR	Tantalum	22 μF 16V
C325-327	YWT316B104MT	Ceramic	0.1 μF
C328	YWSK41C106MB	Tantalum	10 μF 16V
C329	YWT316B104MT	Ceramic	0.1 μF
C330	YWSK41C106MB	Tantalum	10 μF 16V
C331	YWT316B104MT	Ceramic	0.1 μF
C334	YWSK41C106MB	Tantalum	10 μF 16V
C335	TAJC226M010	Tantalum	22 μF 10V
C336,337	YWT316B104MT	Ceramic	0.1 μF
C338	TAJC226M010	Tantalum	22 μF 10V
C339,340	YF400102CHJT	Ceramic	1000 pF
C341	YWT316B104MT	Ceramic	0.1 μF
C342	YWSK41C106MB	Tantalum	10 μF 16V
C347-349	YWT316B104MT	Ceramic	0.1 μF
C350	YWSK41C106MB	Tantalum	10 μF 16V
C351	YGM2B104K1ET	Ceramic	0.1 μF 25V
C352	TAJA105M016	Tantalum	1 μF 16V
C353,401	YWT316B104MT	Ceramic	0.1 μF
C402	YWSK41C106MB	Tantalum	10 μF 16V
C403,404	YWT316B104MT	Ceramic	0.1 μF
C405	ECEV1AAN330P	Electrolytic	33 μF 10V
C406	YWSK41C106MB	Tantalum	10 μF 16V
C407	ECEV1AAN330P	Electrolytic	33 μF 10V
C408	YF400271CHJT	Ceramic	270 pF
C409	YF400102CHJT	Ceramic	1000 pF
C410	ECST1AX106ZR	Tantalum	10 μF 10V
C415	YGM2C561J1HT	Ceramic	560 pF 50V
C416	YGM2C101J1HT	Ceramic	100 pF 50V
C417	YGM2C561J1HT	Ceramic	560 pF 50V
C418	YGM2C101J1HT	Ceramic	100 pF 50V
C500	YGM2C151J1HT	Ceramic	150 pF 160V
C501	YF400103XKT	Ceramic	0.01 μF
C502	YGM2C151J1HT	Ceramic	150 pF 160V
C503	YF400103XKT	Ceramic	0.01 μF
C504	YWT316B104MT	Ceramic	0.1 μF
C505	ECEV1EG470P	Electrolytic	47 μF 25V
C506	YWT316B104MT	Ceramic	0.1 μF
C507	ECEV1EG470P	Electrolytic	47 μF 25V
C521,522	YWT316B104MT	Ceramic	0.1 μF
C523	YWSK41C106MB	Tantalum	10 μF 16V
C524,525	YWT316B104MT	Ceramic	0.1 μF
C528-530	YWT316B104MT	Ceramic	0.1 μF
C540	YWSK41C106MB	Tantalum	10 μF 16V
C541-544	YGM2B104K1ET	Ceramic	0.1 μF 25V
L4,6	YWBLM21A05PT	Coil	
L8,9	ELJPA1R0MF	Coil	1μH
L10-25	YWBLM21A05PT	Coil	
L27	YWBLM21A05PT	Coil	
L29	YWCD75100KC	Coil	
L30	YWBLM21A05PT	Coil	
L31-39	YWBLM21A05PT	Coil	
L50,51	YWNL32T100J	Coil	10 μH
L53 ,54	YWNL32T100J	Coil	10 μH
L56,57	YWNL32T100J	Coil	10 μH
L59-62	YWNL32T100J	Coil	10 μH
L70	YWNL32T100J	Coil	10 μH
P1	YW8817140L	140-pin Connector	
P2	YW8817120L	120-pin Connector	
X2	CSTCS40MX040	Ceramic Resonator	
X3	YWDX12R288V	Crystal Oscillator	12.288 MHz
F1-3 ⚠	YWSSFC1R2AT4	Current Fuse	1.2A
TP1-13	YWRCT2125TPV	Test Point	
TP15-21	YWRCT2125TPV	Test Point	
TP23-49	YWRCT2125TPV	Test Point	
TP101-111	YWRCT2125TPV	Test Point	
TP121-124	YWRCT2125TPV	Test Point	
TP900-911	YWRCS3216TPV	Test Point	
M1	YWV4RA0121A3	Lever	
M2	YWV2HA1206A3	Shield Parts	
M3 ⚠	YW7C1A013A	Main Label	
M4	YWV7SA2083A4	Blank Label L	
M5	YWV7SA2084A4	Blank Label S	
M8	YW6D1A002A	Cushion	
M9	YWSKY30X40	Polyethelene Bag	
M10	YW6D1A001A	Packaging	

PROTECTION BOARD WITH FAN

REF. NO.	PART NO.	DESCRIPTION
MO1 ⚠	0610-12M-180	Fan
M1	YWCSM309547C	Shield Parts
M2	YWVAB2036AN	Protection Board
M3	YWV7SA2115A4	G/L Adjustment Label
M4 ⚠	YFV7MB0103A4	Shock Label
M8	XZB35X50XC05	Polyethelene Bag
M9	YW6D1A004A	Cushion
M10	YW6D1A003A	Packaging

ACCESSORY PARTS/PACKAGING PARTS

REF. NO.	PART NO.	DESCRIPTION
M11 ⚠	YW7J1A039A	Operating Instructions
M12	XZB26X40C05	Polyethelene Bag
M18	YW6C1C031A	Packaging